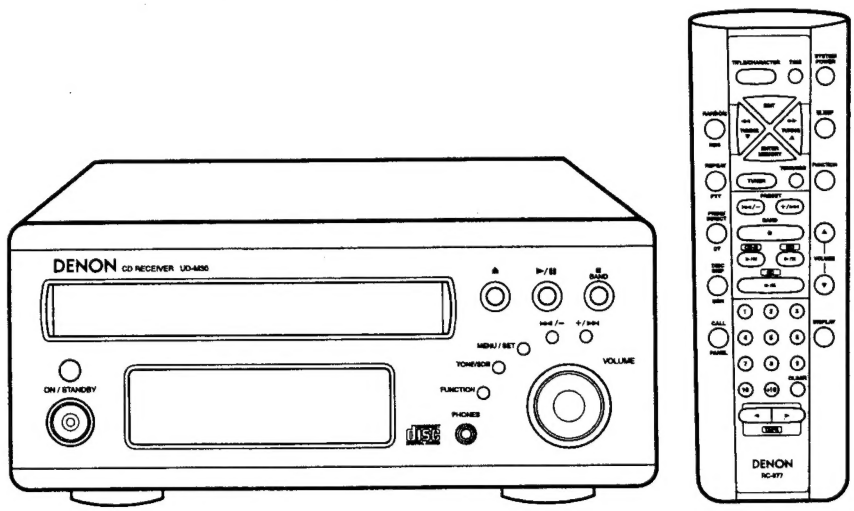
DENON

Hi-Fi Personal Component System

SERVICE MANUAL

MODEL UD-M30

STEREO CD RECEIVER



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• **Some illustrations using in this service manual are slightly different from the actual set.**

NIPPON COLUMBIA CO., LTD.

X0072

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

SPECIFICATIONS

■ RECEIVER SECTION

Reception frequency band:	FM: 87.5 MHz - 108.0 MHz AM: 520 kHz - 1710 kHz (U.S.A. & Canada model) 522 kHz - 1611 kHz (Europe & Asia model)
Reception sensitivity:	FM: 1.5 µV/75 Ω/ohms AM: 20 µV
FM stereo separation:	35 dB (1 kHz)
Rated output power:	20 W + 20 W (6 Ω/ohms, 1 kHz, T.H.D. 10 %)
Audio input/output jacks:	LINE1 input/output jacks, LINE2 input/output jacks, PRE OUT (with STEREO/MONO selector switch) jack, 3.5 mm headphones jack

■ CD PLAYER SECTION

Wow & flutter:	Below measurable limits (±0.001 % W.peak)
Sampling frequency:	44.1 kHz
Optical source:	Semiconductor

■ CLOCK, TIMER SECTION

Clock system:	Power source synchronous system Everyday timer (1 setting) Once timer (1 setting) Sleep timer (maximam 60 min.)

■ GENERAL

Power supply:	AC 120 V, 60 Hz (U.S.A. & Canada model) AC 230 V, 50 Hz (Europe & Asia model)
Power consumption:	50 W
Maximum external dimensions:	210 (W) × 95 (H) × 325 (D) mm (8-17/64″ × 3-45/64″ × 12-13/16″) (including feet, controls and terminals)
Mass:	3.8 kg (8 lbs. 6 oz)

■ REMOTE CONTROL UNIT (RC-877)

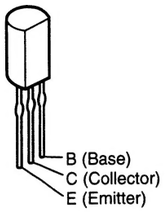
Remote control system:	Infrared pulse
Number of buttons:	39
Power Supply:	Two DC 1.5 V R03/AAA batteries
Maximum external dimensions:	61 (W) × 188 (H) × 26 (D) mm (2-13/32″ × 7-13/32″ × 1-1/32″)
Mass:	120 g (4.2 oz) (including batteries)

* Maximum dimensions include controls, jacks, and covers.
(W) = Width, (H) = Height, (D) = Depth

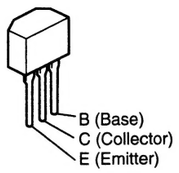
* For improvement purposes, specifications and functions are subject to change without advanced notice.

● TRANSISTORS

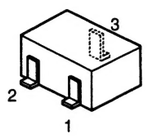
2SB562T



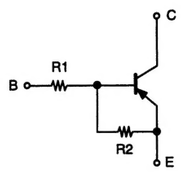
DTC114ES
DTC143ZS



DTA114TK
DTA114EK
DTA115TK
DTC114TK
DTC114EK
DTC144EK
DTC323TK

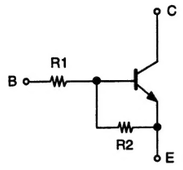


PNP Type



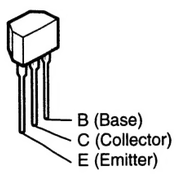
	R1	R2
DTA114EK	10kΩ	10kΩ
DTA114TK	10kΩ	—
DTA115TK	100kΩ	—

NPN Type

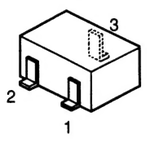


	R1	R2
DTC144EK	47kΩ	47kΩ
DTC323TK	2.2kΩ	—
DTC114EK	10kΩ	10kΩ
DTC114TK	10kΩ	—
DTC143ZS	4.7kΩ	47kΩ
DTC114ES	10kΩ	10kΩ

2SA933 (S)

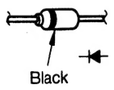


2SA1037K
2SC2412K (S/R)
2SC3326 (A/B)

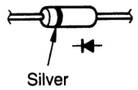


● DIODES (LED Included)

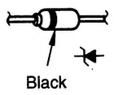
1N4148



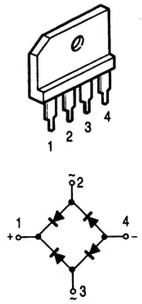
1N4004



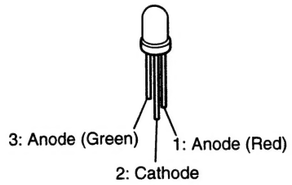
MTZ-J12AT
MTZ-J33CT
MTZ-J5.6A
MTZ-J6.2A



D3SBA60

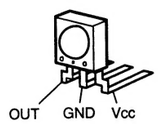


SLR-9336DS-91



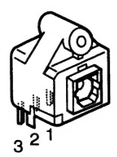
● REMOTE CONTROL SENSOR

RPM6938-SV4 (IR701)



● OPTICAL OUTPUT TERMINAL

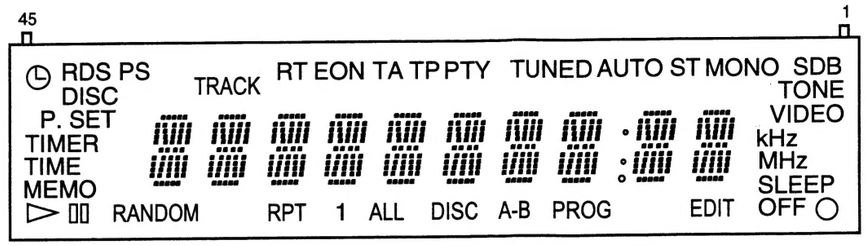
TOTX178A (IC601)



1: OUT
2: GND
3: Vcc

● FL DISPLAY

11-BT-182GNK (FL601)



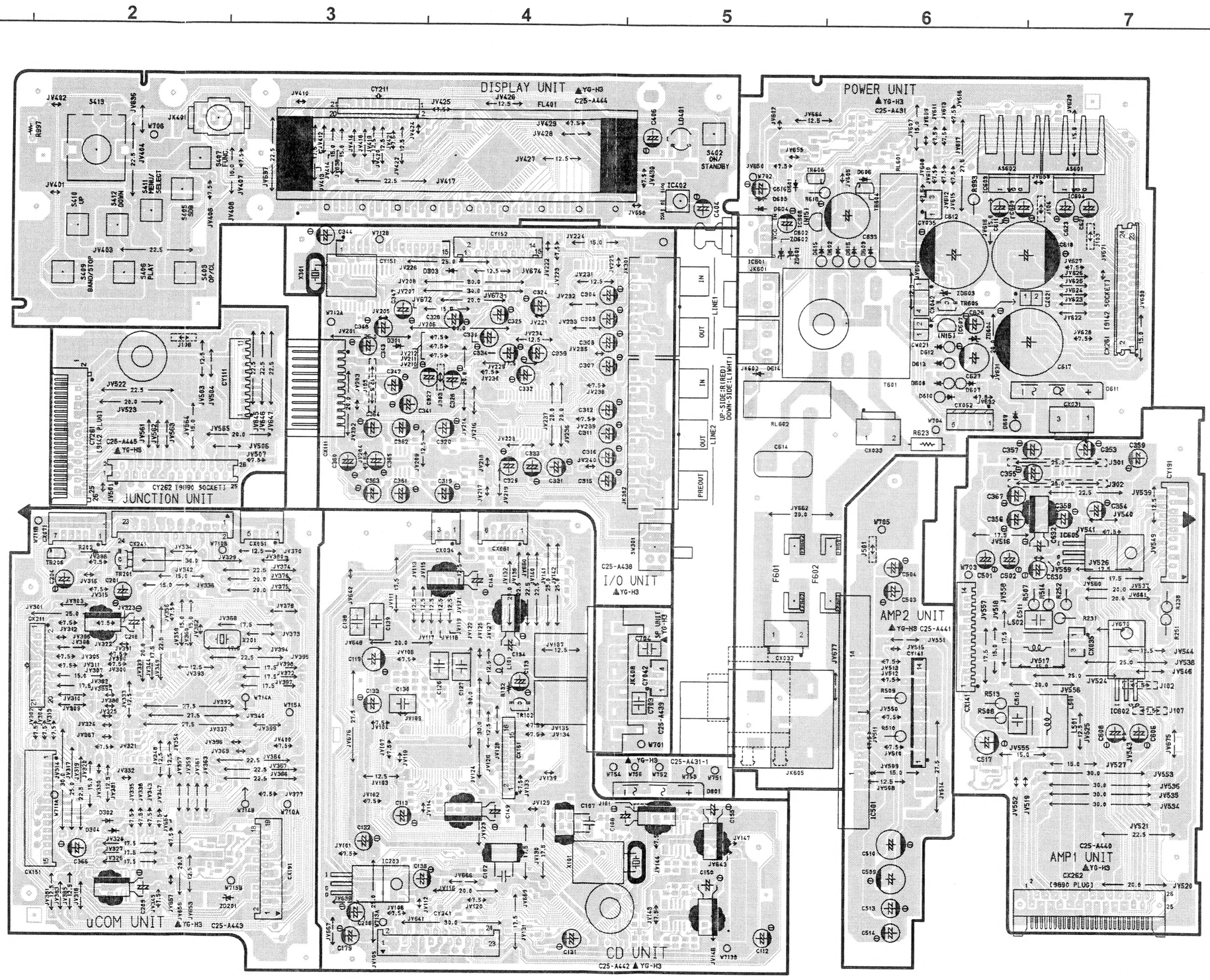
Pin Assignment

Pin No.	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Connection	F2	F2	NP	NP	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	NC	P25	P24	P23	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NP	NP	F1	F1

Note: 1) F1, F2..... Filament
2) NP..... No Pin
3) NC..... No connection (NC pin should be electrically open on the PC board)
4) DL..... Datum Line
5) 1G~11G..... Grid
6) Field of vision is a minimum of 39° from the upper side, 30° from the lower side.

PRINTED WIRING BOARDS

UD UNIT



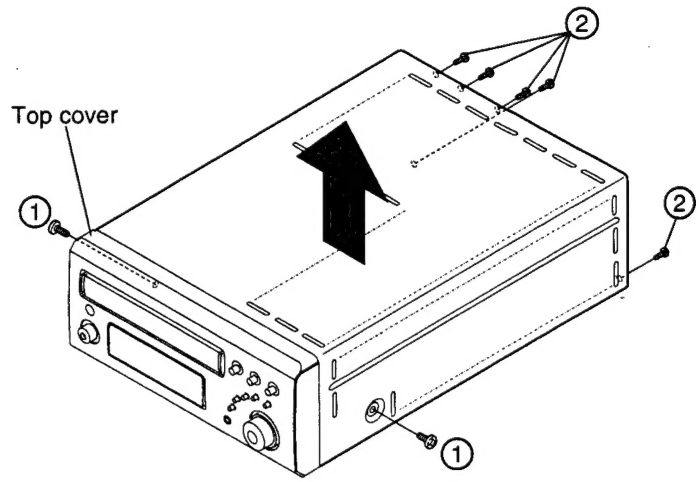
COMPONENT SIDE

DISASSEMBLY

(Follow the procedure below in reverse order when reassembling)

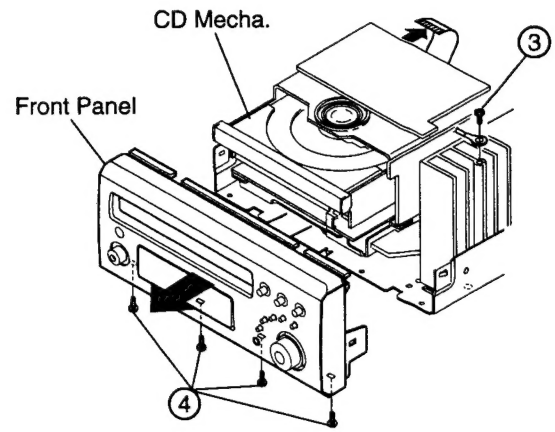
Top Cover

1. Remove 2 screws ① on both sides.
2. Remove 5 screws ② on the rear.
3. Detach the Top Cover to the arrow direction.



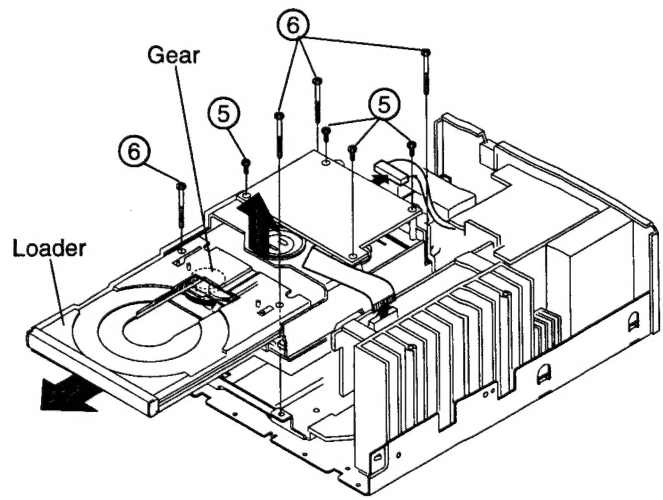
Front Panel

1. Disconnect FFC on the rear of the CD Mecha.
2. Remove 1 screw ③ fixing the wire on the radiator.
3. Remove 4 lower screws ④.
4. Detach the Front Panel with releasing the hooks on both sides.



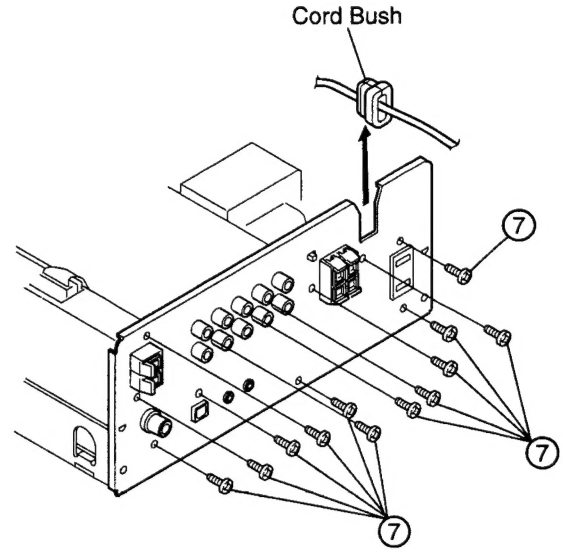
CD Mecha.

1. Disconnect FFC coming from the top of the CD Mecha.
2. Unplug the connector on the rear of the µcom PWB.
3. Remove 4 screws ⑤ on the µcom PWB.
4. Fully pull out the loader by turning the gear under the loader of the CD Mecha.
5. Remove 4 screws ⑥ to detach the CD Mecha.



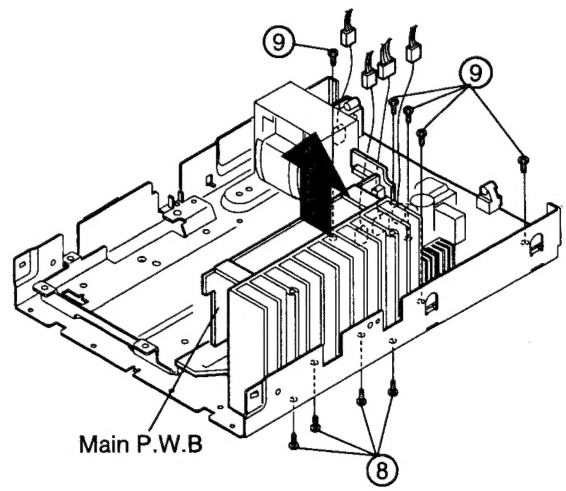
Rear Panel

1. Pull out the cord bush.
2. Remove 12 screws (7).



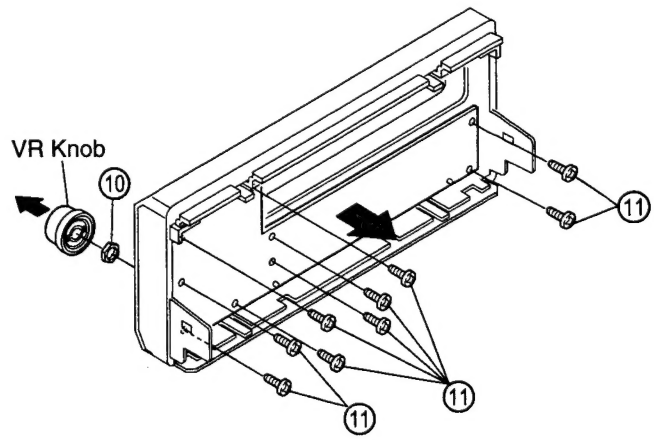
Main PWB

1. Remove 4 screws (8) fixing the radiator under the chassis.
2. Unplug 4 connectors on the Main PWB.
3. Remove 5 screws (9).
4. Detach the Main PWB together with the radiator and Power PWB.

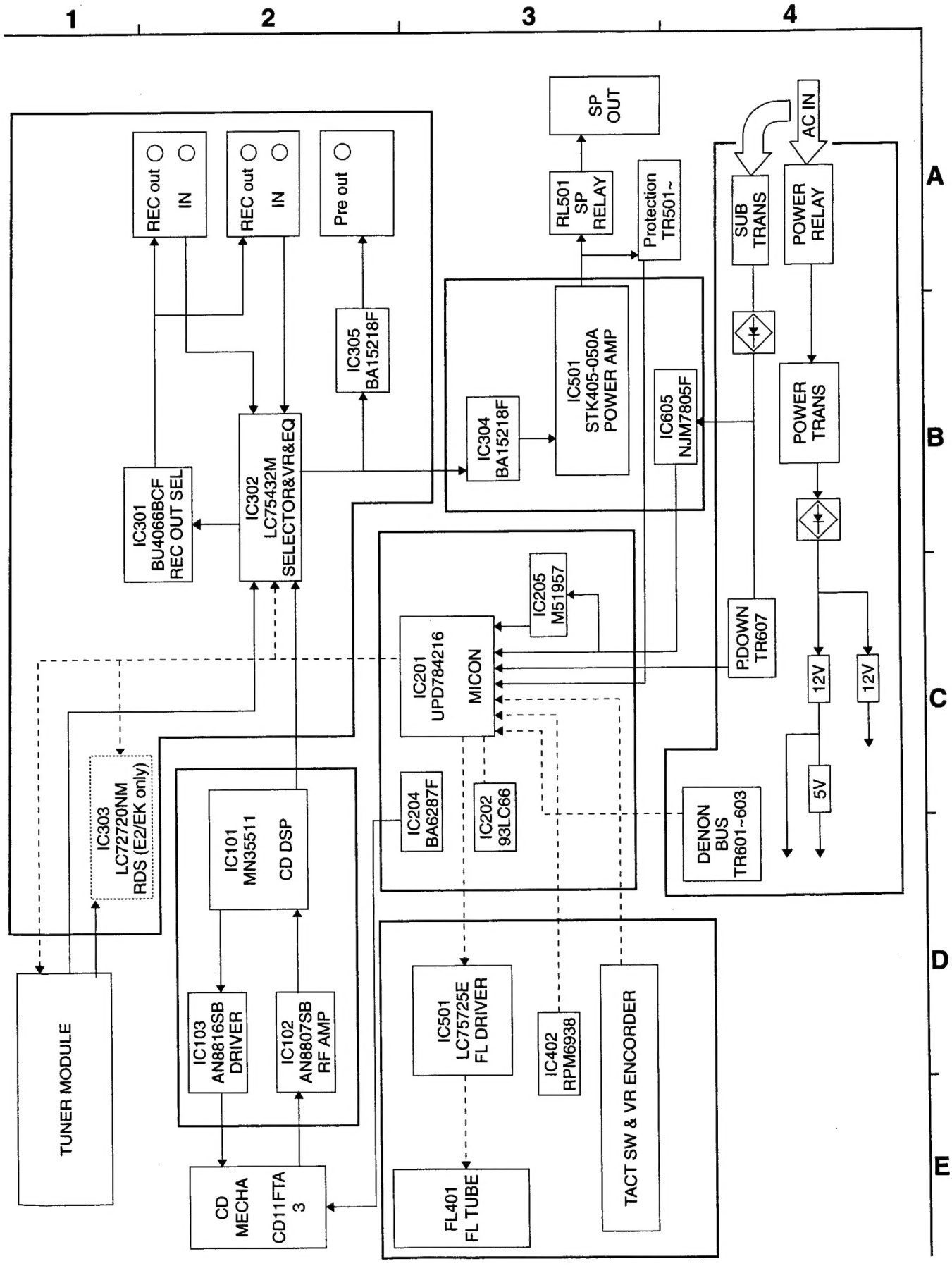


Display PWB

1. Pull out the VR knob.
2. Remove the VR nut (10).
3. Remove 9 screws (11).



BLOCK DIAGRAM



CONFIRMING THE SERVO

A microcomputer adopted in this unit has the service programs so that each servo adjustment can be performed easily by the operating buttons.
This unit which adopted digital servo has the ability to automatically adjust Focus Gain, Focus Balance, Focus Offset, Tracking Gain, Tracking Balance, and Tracking Offset.

1. Actuating the Service Program

Plug the AC cord while pressing the Power and Function keys.
(Service program actuates and displays track number 01.)

Note: The operating button do not function when service program actuates.

2. Operating Function at Service Program Actuation

Button Operation	Function	Description
OPEN/CLOSE ▲	Opens or closes the disc holder.	• Opens or closes when disc is stopped. • Operates other keys after open or close.
STOP ■	Stops system operation.	• Displays track number 01. • Press when adjustment completed or correcting it.
PLAY ▶	Operates the Focus servo and turns disc.	• Displays track number 02 when operation is completed.
⏮	Performs Focus servo, Tracking servo, Slide servo, Spindle servo and various automatically adjustment.	• Performs Tracking servo and Slide servo when pressing PLAY button. • Displays track number 03 when operation is completed. • When unusualness is existed, displays index number (error message). But E9, E- not error message.
⏭	Displays automatically adjustment effect of FG, FEXP, FBAL, FOFS, TG, TEXP, TBAL and TOFS.	• Press ■ button when ⏮ button operation is completed. When pressing ⏭ button every once, displays automatically adjusting value about FG, FBAL, FOFS, TG, TBAL, and TOFS in the sequence. Displays following indication: INDEX / TIME FG 01 XXmXXs FBAL 02 XXmXXs FOFS 03 XXmXXs TG 04 XXmXXs TBAL 05 XXmXXs TOFS 06 XXmXXs
Other Buttons	No normal operation.	• Do not operate other button except above. • When an error occures, immediately turn power switch OFF.

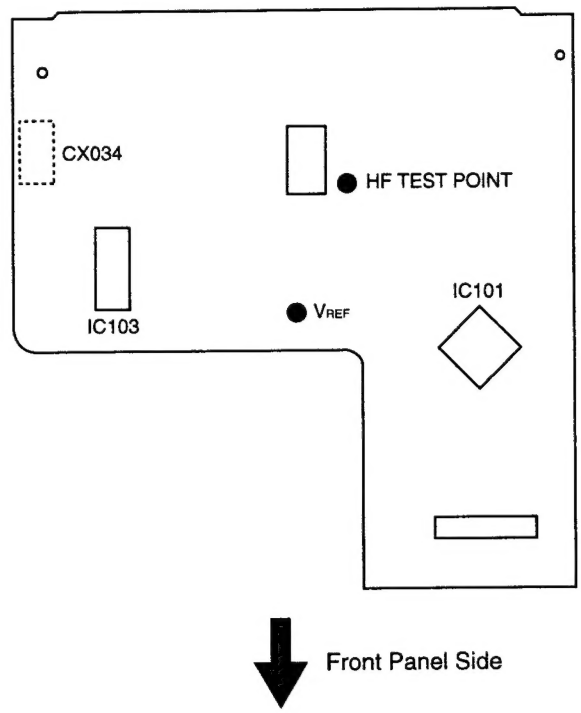
Note: Do not use remote control during service program operation.

3. Comfirming Method

(1) Required Measuring Equipments for adjustment
1. Dual-trace oscilloscope
2. Adjustment disc TCD-784 (ABEX)

(2) Adjustment location

CD P.W.B (Viewed from the bottom)



(3) Confirming procedure
1. Actuate service program.
2. Load adjustment disc TCD-784.
3. Press ▶ to indicate track number 02.
4. Press |◀◀ to indicate track number 03.
5. Press ■ button.
6. When pressing ▶▶| button every once, confirm automatically adjusting values about FG, FBAL, FOFS, TG, TBAL and TOFS (refer to table 1 for the limits of value).
7. When service program is completed, return to normal mode (turn power switch ON).
8. Confirm HF level.

(4) Pickup current measurement
1. Press ▶ to indicate track number 02.
2. Press |◀◀ to indicate track number 03.
3. Measure the voltage between 1 pin and 3 pin of CX034, and confirm that the value is 1.4 V or less (normally 0.9 V or around).

(5) Confirm automatically adjustment values about FG, FBAL, FOFS, TG, TBAL and TOFS.

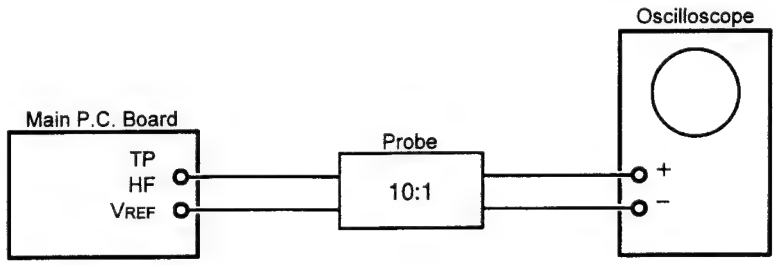
1. Press ▶ button, displays track number 02.
2. Press ⏮ button, displays track number 03.
3. Press ■ button, displays track number 01.
4. Press ⏭ button, displays FG (Focus Gain Tentative) value, confirm the value within the limits of table 1.
5. Press ⏭ button, displays FBAL (Focus balance) value, confirm the value within the limits of table 1.
6. Press ⏭ button, displays FOFS (Focus offset) value, confirm the value within the limits of table 1.
7. Press ⏭ button, displays TG (Tracking Gain) value, confirm the value within the limits of table 1.
8. Press ⏭ button, displays TBAL (Tracking Balance) value, confrirm the value within the limits of table 1.
9. Press ⏭ button, displays TOFS (Tracking Offset) value, confirm the value within the limits of table 1.

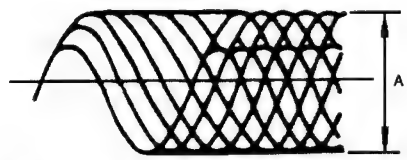
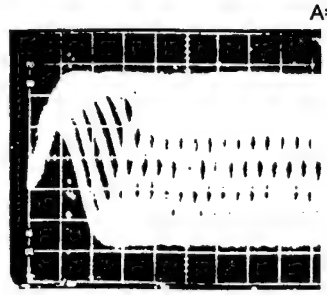
Confirming Table about Digital Servo Adjusting Value (table 1)

	TRACK INDEX	XXMXXS
FG	01 01	M42S~1M00S
FBAL	01 02	−1M25S~1M25S
FOFS	01 03	−M35S~M35S
TG	01 04	M51S~1M56S
TBAL	01 05	−58S~1M04S
TOFS	01 06	−M15S~M15S

(6) HF level Confirming

Connection

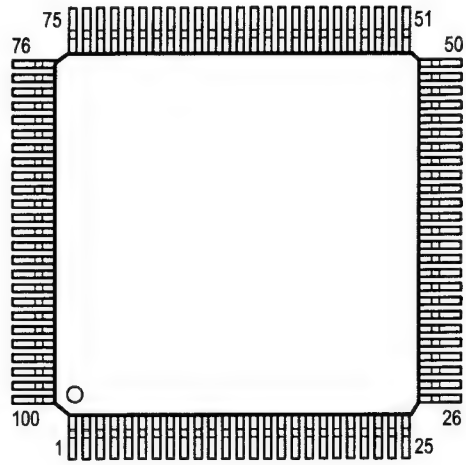


Oscilloscope		Check	Step
V	H	 A=0.40~0.85V  Eye Pattern Eye Pattern	1. Press ▶ button. 2. Check HF level with oscilloscope. 3. Confirm that the waveform is in good shape. (◇ eye pattern in center must be able to discriminate clearly.)
50mV/div or 20mV/div	0.2µs/div or 0.5µs/div		
• Set input mode to ALTERNATE or CHOPPER.			

SEMICONDUCTORS

● IC's

μPD784216AGC-109-8EU (IC201)

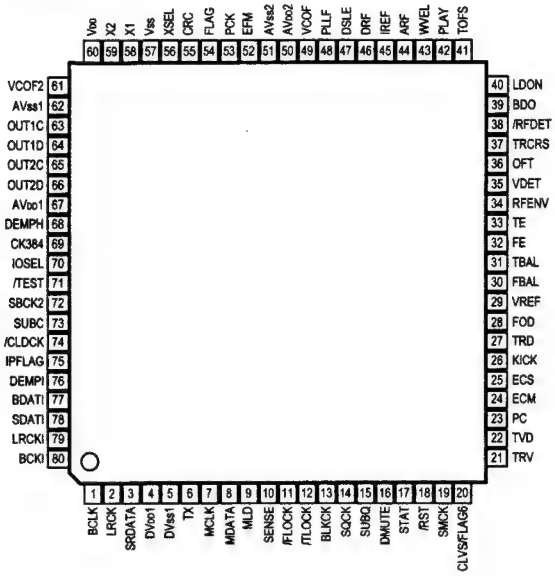


μPD784216AGC-109-8EU Terminal Function

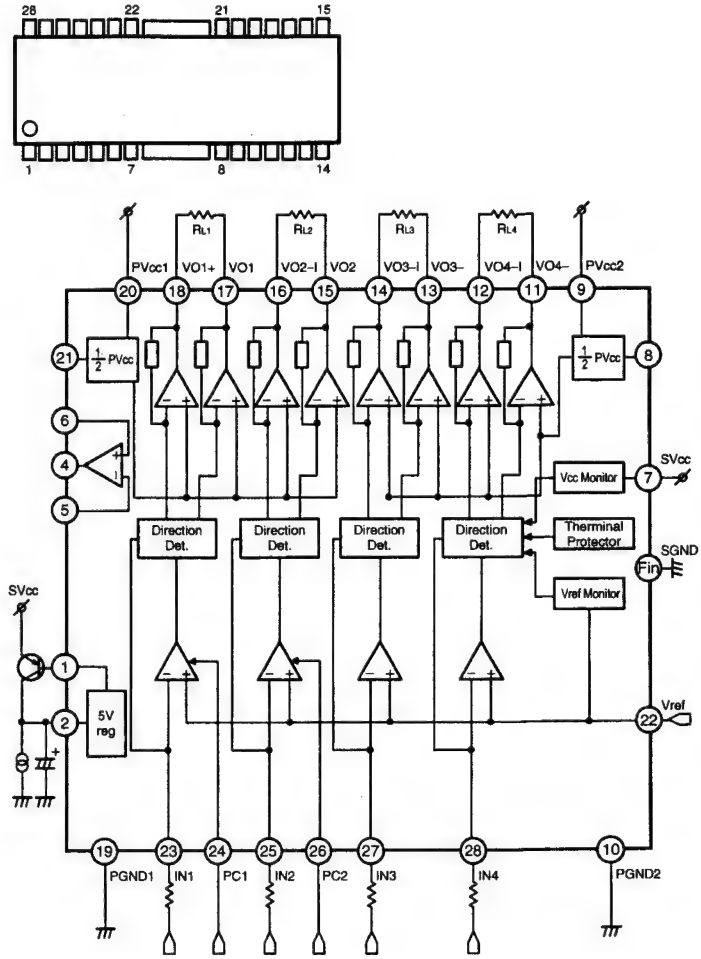
Pin. No.	Name	Symbol	I/O	Function
1	P120/RTP0	ENC A	I	Rotary encoder INPUT A
2	P121/RTP1	ENC B	I	Rotary encoder INPUT B
3	P122/RTP2	V.MUTE	O	Volume mute output, mute: Low
4	P123/RTP3	/POWER	O	Amp circuit power ON/OFF output, ON: High
5	P124/RTP4	/RMUTE	O	Speaker Relay ON/OFF output, ON: High
6	P125/RTP5	N.C	O	
7	P126/RTP6	SEL. EEPROM	O	EEPROM chip enable output
8	P127/RTP7	FLCE	O	Chip select output to FL tube controller
9	VDD	VDD	—	Positive power: +5V
10	X2	X2	—	X'tal connection for main clock oscillation
11	X1	X1	I	X'tal connection for main clock oscillation
12	Vss	Vss	—	GND potential
13	XT2	XT2	—	X'tal connection for main sub-clock oscillation, not used
14	XT1	XT1	I	X'tal connection for main sub-clock oscillation, not used: Connect to Vss or Vcc
15	/RESET	/RESET	I	Micro-computer reset input
16	P00/INTP0	REMOCON	I	Remote-control receive data input
17	P01/INTP1	50/60	I	50/60Hz AC input
18	P02/INTP2/NMI	/DB RXD	I	DENON BUS Data input (interrupt input)
19	P03/INTP3	PROTECT	I	Speaker Terminal DC voltage detect signal input L: protect
20	P04/INTP4	N.C	O	
21	P05/INTP5	BLKCK	I	Subcode bitclock input
22	P06/INTP6	/INT	I	VCD Interrupt request
23	AVDD	AVDD	—	A/D converter analog power: +5V
24	AVref0	AVref0	—	A/D converter reference voltage input: 5V
25	P10/ANI0	KEY1	I	Unit operation button input1
26	P11/ANI1	KEY2	I	Unit operation button input2
27	P12/ANI2	KEY3	I	Not used: Connect to GND
28	P13/ANI3	KEY4	I	Not used: Connect to GND
29	P14/ANI4	TLOCK	I	CD-DSP TLOCK input H: LOCK
30	P15/ANI5	FLOCK	I	CD-DSP FLOCK input H: LOCK
31	P16/ANI6	SENCE	I	CD-DSP SENCE input
32	P17/ANI7	STAT	I	CD Status signal
33	AVss	AVss	—	A/D, D/A converter GND position
34	P130/ANO0	LINE1	O	LINE OUT Control signal output1
35	P131/ANO1	LINE2	O	LINE OUT Control signal output2

Pin. No.	Name	Symbol	I/O	Function
36	AVref1	AVref1	—	D/A converter reference voltage input
37	P70/RxD2/SI2	CDFL DATAI	I	cd-dsp/FL Data input
38	P71/TxD2/SO2	CDFL DATAO	O	cd-dsp/FL Data output
39	P72/ASCK2/SCK2	CDFL CLK	O	cd-dsp/FL Data CLOCK output
40	P20/RxD1/SI1	DATA RXD	I	DATA BUS (for VOL, PLL, RDS IC) Data input
41	P21/TxD1/SO1	DATA TXD	O	DATA BUS (for VOL, PLL, RDS IC) Data output
42	P22/ACSK1/SCK1	DATA CLK	O	DATA BUS (for VOL, PLL, RDS IC) Clock output
43	P23/PCL	DATA CE	O	DATA BUS (for VOL, PLL, RDS IC) Chip enable output
44	P24/BUZ	/RDSRST	O	RDS IC reset output
45	P25/SI0/SDA0	DB RXD	O	DENON BUS DATA INPUT
46	P26/SO0	DB TXD	I	DENON BUS DATA OUTPUT
47	P27/SCK0/SCL0	DB CLK	O	DENON BUS CLOCK OUTPUT
48	P80/A0	/SD	I	FM/AM Tuning signal input, Tuned: Low
49	P81/A1	/ST INC	I	FM stereo demodulation detect input, Stereo: Low
50	P82/A2	/TMUTE	O	Tuner mute output, mute: Low
51	P83/A3	SUCS	O	Subcode SELECT H: CD SUBQ CLOCK
52	P84/A4	USA	I	Initial setting input
53	P85/A5	EURO	I	Initial setting input
54	P86/A6	FREQ	I	Initial setting input
55	P87/A7	RDS	I	Initial setting input
56	P40/AD0	LED3G	O	Disc3 Green LED output, Light: High
57	P41/AD1	LED3R	O	Disc3 Red LED output, Light: High
58	P42/AD2	LED2G	O	Disc2 Green LED output, Light: High
59	P43/AD3	LED2R	O	Disc2 Red LED output, Light: High
60	P44/AD4	LED1G	O	Disc1 Green LED output, Light: High
61	P45/AD5	LED1R	O	Disc1 Red LED output, Light: High
62	P46/AD6	LED POWER G	O	POWER/STANDBY Green LED output, Light: High
63	P47/AD7	LED POWER R	O	POWER/STANDBY Red LED output, Light: High
64	P50/A8	EX SW	I	Changer mecha, Carriage Extra position: SW2 (X3)/not used: connect to ext. pilldown (X1)
65	P51/A9	HOME SW	I	Changer mecha, Carriage Home position: SW3 (X3)/not used: connect to ext. Pulldown (X1)
66	P52/A10	D2 SW	I	Changer mecha, Carriage number, SW5 (X3)/CD mecha. Closed SDW (X1)
67	P53/A11	D1 SW	I	Changer mecha, Carriage number, SW4 (X3)/CD mecha Open SW. (X1)
68	P54/A12	O/C SW	I	Changer mecha, Open/Close detect: SW6 (X3)/not used: connect to ext. pulldown (X1)
69	P55/A13	FWD SW	I	Changer mecha. slider Forward position: SW7 (X3)/not used: connect to ext. Pulldown (X1)
70	P56/A14	RVS SW	I	Changer mecha. Slider Reverse position: SW8 (X3)/not used: connect to ext. Pulldown (X1)
71	P57/A15		O	Not used: NC
72	Vss	Vss	—	GND potential
73	P60/A16	FL BLK	O	Putting out light of FL display H: lighting
74	P61/A17	N.C	O	
75	P62/A18	N.C	O	
76	P63/A19	N.C		
77	P64/RD	SRST	O	CD-DSP reset output, output, reset: High
78	P65/WR	VRST	O	VCD module output, reset: High
79	P66/WAIT	N.C	O	
80	P67/ASTB	N.C	O	
81	VDD	VDD	—	Positive power
82	P100/TI5/TO5	DRAWER-	O	Changer mecha. Drawer motor– (X3)/CD mecha. Open
83	P101/TI6/TO6	DRAWER+	O	Changer mecha. Drawer motor+ (X3)/CD mecha. Close
84	P102/TI7/TO7	CARRIGE-	O	Changer mecha. Carriage motor– (X3)/not used: NC (X1)
85	P103/TI8/TO8	CARRIGE+	O	Changer mecha, Carriage motor+ (X3)/not used: NC (X1)
86	P30/TO0	MLD	O	CD-DSP serial communication load output
87	P31/TO1	N.C	O	Not used: NC
88	P32/TO2	DMUTE	O	CD-DSP DMUTE, mute: High
89	P33/TI1	NTSC/PAL	I	NTSC/PAL switching input, NTSC: Low
90	P34/TI2	CDPOWER	O	CD power control signal output H: POWER ON
91	P35/TI00	CHA/SIG	I	3CD Changer/Single CD switching input, 3CD: High
92	P36/TI02		O	Not used: NC
93	P37	HPSW	I	HEADPHONE Insert switch detective signal input
94	TEST/VPP	TEST	I	not used: Connect to GND
95	P90	CD/VCD	I	CD/VCD switching input, CD: High
96	P91	INSW	I	Pickup inner-most detect input, inner most: Low at on
97	P92	VCL	O	VCD module clock output, CD: ext. Pullup
98	P93	VDI	I	VCD module data input, CD: ext. pullup
99	P94	VDO	O	VCD module data output
100	P95	VCE	O	VCD module serial communication select output

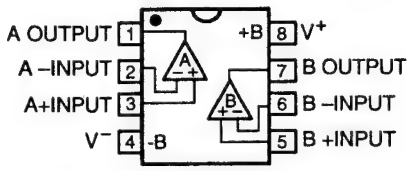
MN35511 (IC101)



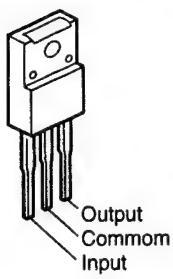
AN8816SB (IC103)



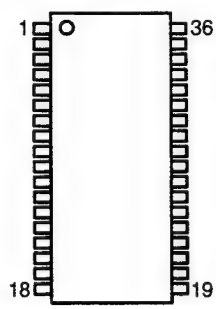
BA15218F (IC105, 106, 304, 305)

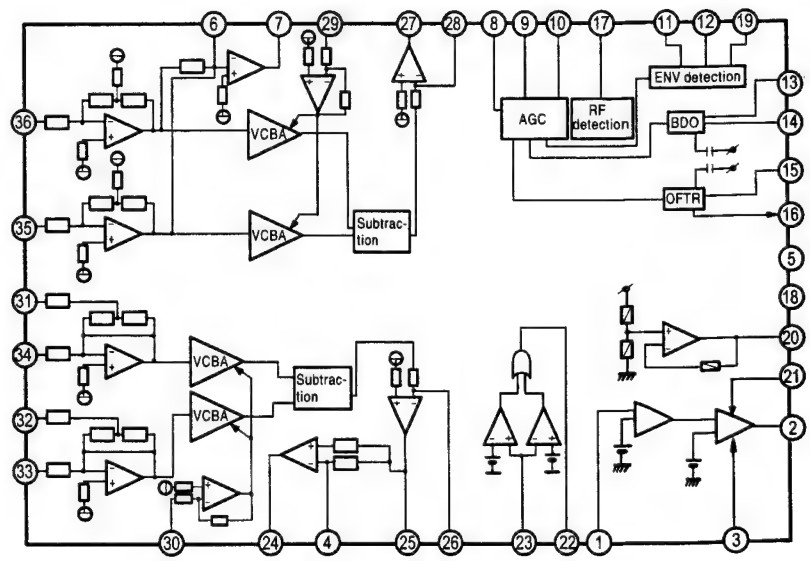


NJM7805FA (IC203, 602, 605)
NJM7812FA (IC603, 604)

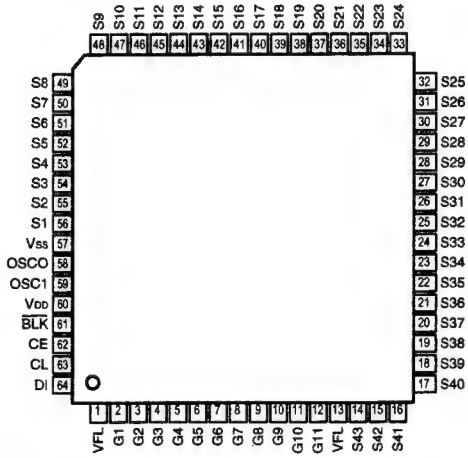


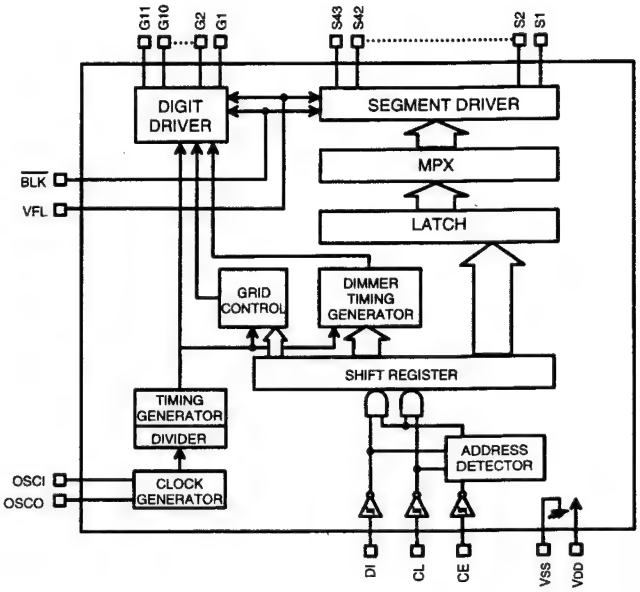
AN8807SB (IC102)





LC75725E (IC401)



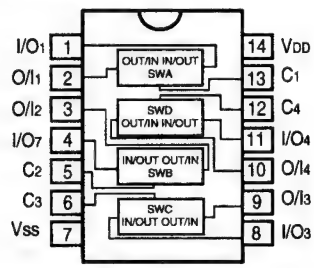


Terminal Function

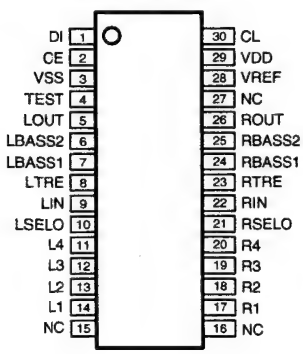
Pin No.	I/O	Name	Function
1, 13	—	VFL	Power supply pin to driver block
2~12	O	G1~G11	Digit output pin
14~56	O	S1~S43	Segment output pin
57	—	Vss	Power supply pin
58	O	OSCO	Pin for oscillator
59	I	OSCI	Pin for oscillator
60	—	VDD	Power supply pin to logic block
61	I	$\overline{BLK}$	Display off input pin
62	I	CE	Input for serial data transfer CE: Chip enable CL: Sync clock DI: Transfer data
63	I	CL	
64	I	DI	

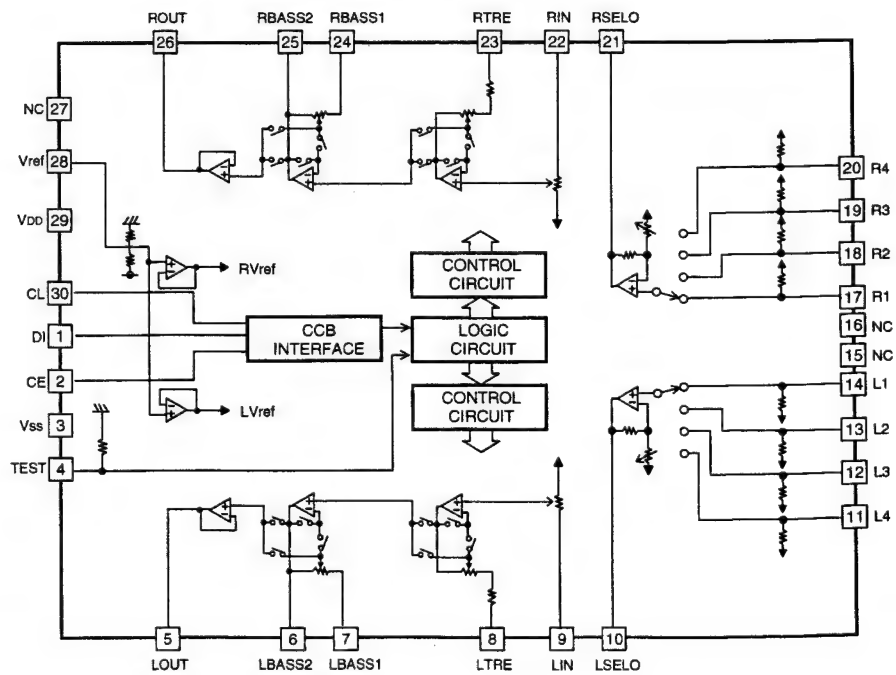
CE: Chip enable

BU4066BCF (IC206)

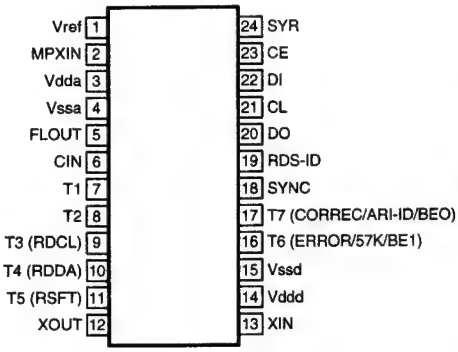


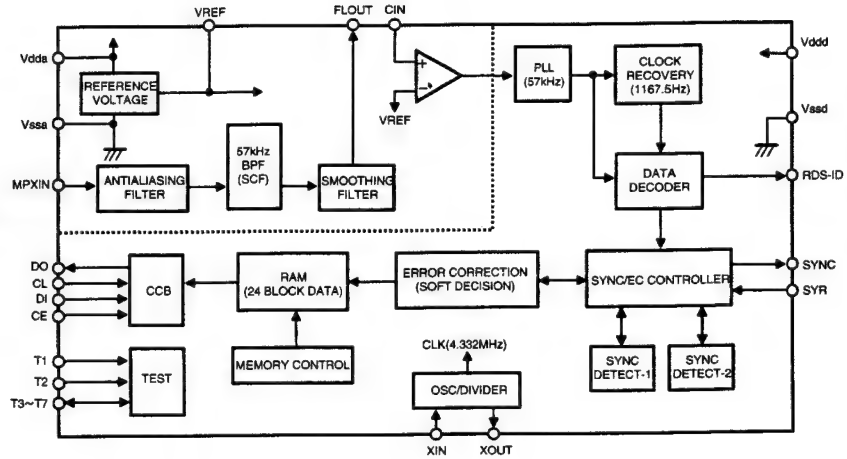
LC75342M (IC302)



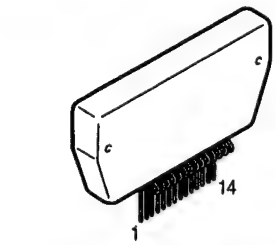


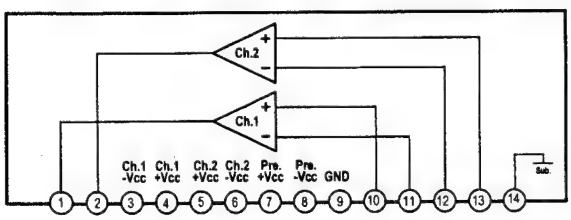
LC72720M (IC303)



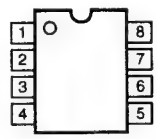


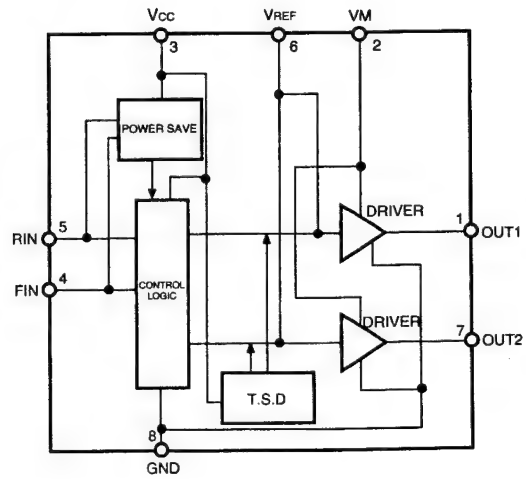
STK405-050A (IC501)



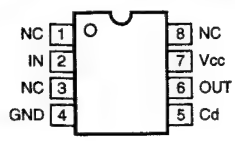


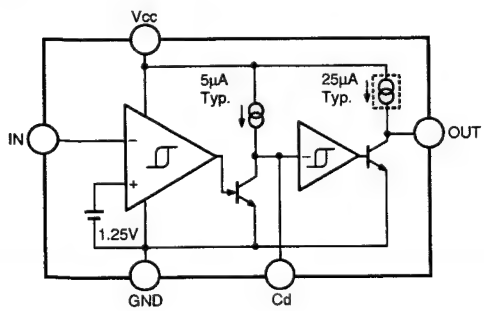
BA6287F (IC204)



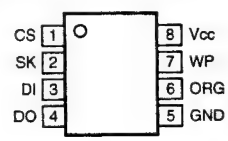


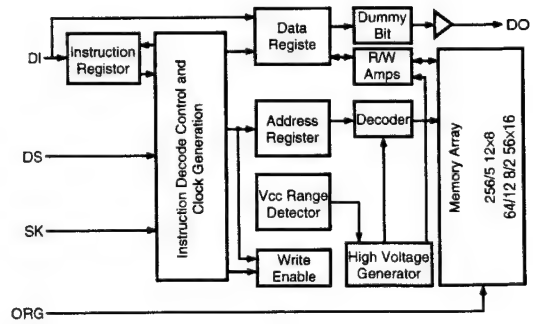
M51957BFP (IC205)





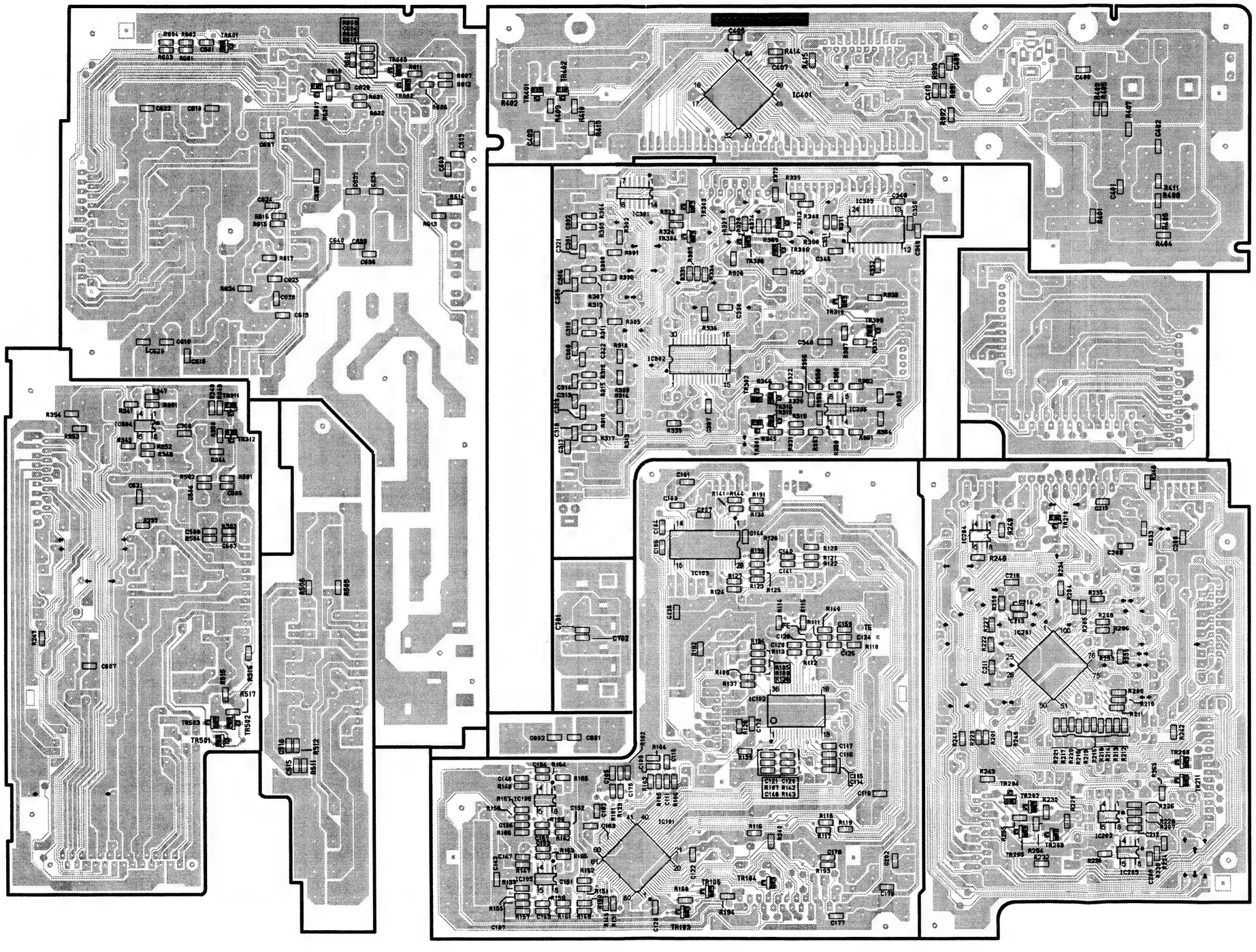
93LC66 (IC202)





1 2 3 4 5 6 7 8

A B C D E



FOIL SIDE

NOTE FOR PARTS LIST

- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:
Parts marked with this symbol ⚠ ▒▒ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

Ex.: RN (Type) 14K (Shape and performance) 2E (Power) 182 (Resistance) G (Allowable error) FR (Others)

RD : Carbon RC : Composition RS : Metal oxide film RW : Winding RN : Metal film RK : Metal mixture	2B : 1/8W 2E : 1/4W 2H : 1/2W 3A : 1W 3D : 2W 3F : 3W 3H : 5W	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%	P : Pulse-resistant type NL : Low noise type NB : Non-burning type FR : Fuse-resistor F : Lead wire forming

✱ Resistance

1 8 2 ⇒ 1800 ohm = 1.8 kohm
Indicates number of zeros after effective number.
2-digit effective number.
• Units: ohm

1 R 2 ⇒ 1.2 ohm
1-digit effective number.
2-digit effective number, decimal point indicated by R.
• Units: ohm

● Capacitors

Ex.: CE (Type) 04W (Shape and performance) 1H (Dielectric strength) 2R2 (Capacity) M (Allowable error) BP (Others)

CE : Aluminum foil electrolytic CA : Aluminum solid electrolytic CS : Tantalum electrolytic CQ : Film CK : Ceramic CC : Ceramic CP : Oil CM : Mica CF : Metallized CH : Metallized	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1V : 35V 1H : 50V 2A : 100V 2B : 125V 2C : 160V 2D : 200V 2E : 250V 2H : 500V 2J : 630V	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% −20% P : +100% −0% C : ±0.25pF D : ±0.5pF = : Others	HS : High stability type BP : Non-polar type HR : Ripple-resistant type DL : For change and discharge HF : For assuring high frequency U : UL part C : CSA part W : UL-CSA type F : Lead wire forming

✱ Capacity (electrolyte only)

2 2 2 ⇒ 2200μF
Indicates number of zeros after effective number.
2-digit effective number.
• Units: μF.

2 R 2 ⇒ 2.2μF
1-digit effective number.
2-digit effective number, decimal point indicated by R.
• Units: μF.

✱ Capacity (except electrolyte)

2 2 2 ⇒ 2200pF=0.0022μF
(More than 2) — Indicates number of zeros after effective number.
2-digit effective number.
• Units: μF.

2 2 1 ⇒ 220pF
(0 or 1) — Indicates number of zeros after effective number.
2-digit effective number.
• Units: pF.

• When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

PARTS LIST OF P.W.B. UNIT ASS'Y

MAIN P.W.B. UNIT

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS			
IC101	262 2815 008	IC MN35511	CD DSP
IC102	262 2462 901	IC AN8807SB	CD DRIVER
IC103	262 2461 902	IC AN8816SB	CD RF
IC105	263 0615 902	IC BA15218F	
IC106	263 0615 902	IC BA15218F	
IC201	262 2814 009	IC UPD784216AGC-109-8EU	MICON
IC202	951 0011 807	IC 93LC66 /A	EEPROM
IC203	263 0553 006	IC NJM7805FA	
IC204	263 0994 908	IC BA6287F	LOADER DRIVER
IC205	263 0454 901	IC M51957BFP	RESET
IC301	262 1875 900	IC BU4066BCF	ANALOG SW
IC302	951 0011 904	IC LC75342M	SEL/VOL/TONE
IC303	262 2547 907	IC LC72720NM	RDS
IC304,305	263 0615 902	IC BA15218F	
IC401	951 0012 000	IC LC75725E	FLD DRIVER
IC402	499 0301 006	IC RPM6938-V4	SENSOR
IC501	951 0012 107	IC STK405-050	POWER IC
IC601	951 0010 002	IC TOTX178A	OPTICAL OUT
IC602	263 0553 006	IC NJM7805FA	
IC603,604	263 0516 001	IC NJM7812FA	
IC605	263 0553 006	IC NJM7805FA	
⚠ IC606,607	268 0073 905	IC ICP-N15T	IC PROTECTOR
TR102	271 0183 927	Transistor 2SA933(R/S)T-93	
TR103	269 0082 902	Transistor DTC114EKT96	
TR104,105	269 0106 901	Transistor DTA144TK96	
TR201	272 0025 907	Transistor 2SB562(C)T	
TR202~205	273 0414 906	Transistor 2SC3326 (A/B)	
TR206	269 0020 906	Transistor DTC114ES(10K-10k)	
TR209	269 0185 906	Transistor DTA115TK96	
TR210	269 0088 906	Transistor DTC114TK96	
TR211	269 0083 901	Transistor DTA114EKT96	
TR301,302	269 0066 902	Transistor DTC323TKT96	
TR303,304	269 0054 901	Transistor DTC144EKT96	
TR306,308	269 0066 902	Transistor DTC323TKT96	
TR309	273 0426 907	Transistor 2SC2412KLNT	
TR310	269 0083 901	Transistor DTA114EKT96	
TR311,312	269 0066 902	Transistor DTC323TKT96	
TR313	269 0082 902	Transistor DTC114EKT96	
TR315,316	269 0066 902	Transistor DTC323TKT96	
TR401,402	269 0082 902	Transistor DTC114EKT96	
TR501	271 0238 908	Transistor 2SA1037K(S/R)	
TR502,503	273 0426 907	Transistor 2SC2412KLNT	
TR601	271 0238 908	Transistor 2SA1037K(S/R)	
TR602,603	273 0426 907	Transistor 2SC2412KLNT	
TR604	269 0160 905	Transistor DTC143ZSAT	
TR605	272 0025 907	Transistor 2SB562(C)T	
TR606	269 0160 905	Transistor DTC143ZSAT	
TR607	273 0426 907	Transistor 2SC2412KLNT	
D301~304	276 0375 002	Diode 1N4148	
D601	276 0375 002	Diode 1N4148	
D602,603	GP6 0004 002	Diode 1N4004	
D604~606	276 0375 002	Diode 1N4148	
D607~610	GP6 0004 002	Diode 1N4004	
D611	951 0012 301	Diode D3SBA60	
D612,613	GP6 0004 002	Diode 1N4004	
D614	276 0375 002	Diode 1N4148	
D615,616	GP6 0004 002	Diode 1N4004	
LD401	951 0012 204	LED SLR-9336DS-91	POWER LED
ZD201	276 0644 966	Zener diode MTZJ12AT	
ZD202	951 0012 602	Zener diode MTZJ3.6AT	
ZD601,602	951 0022 401	Zener diode MTZJ6.2AT	
ZD603	951 0012 709	Zener diode MTZJ5.6AT	
ZD604	951 0012 505	Zener diode MTZJ33CT	
RESISTOR			
R101	247 0006 988	Carbon chip 560 ohm 1/10W	RM73B--561J
R102			OPEN(CHIP R)
R103	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R104	247 0014 967	Carbon chip 1 Mohm 1/10W	RM73B--105J
R105	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R106	247 0012 943	Carbon chip 120 kohm 1/10W	RM73B--124J
R107	247 0007 987	Carbon chip 1.5 kohm 1/10W	RM73B--152J
R108,109	247 0010 929	Carbon chip 15 kohm 1/10W	RM73B--153J
R110	247 0013 900	Carbon chip 220 kohm 1/10W	RM73B--224J
R111,112	247 0011 928	Carbon chip 39 kohm 1/10W	RM73B--393J
R113	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R114	247 0013 968	Carbon chip 390 kohm 1/10W	RM73B--394J
R115	247 0013 942	Carbon chip 330 kohm 1/10W	RM73B--334J
R116	247 0012 969	Carbon chip 150 kohm 1/10W	RM73B--154J
R117	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R118	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683J
R119	247 0008 944	Carbon chip 2.7 kohm 1/10W	RM73B--272J
R120	247 0013 900	Carbon chip 220 kohm 1/10W	RM73B--224J
R121	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683J
R122	247 0011 902	Carbon chip 33 kohm 1/10W	RM73B--333J
R123	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R124,125	247 0008 902	Carbon chip 1.8 kohm 1/10W	RM73B--182J

Ref. No.	Part No.	Part Name	Remarks
R126	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R127	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0J
R128	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R129	247 0007 903	Carbon chip 680 ohm 1/10W	RM73B--681J
R130	247 0010 961	Carbon chip 22 kohm 1/10W	RM73B--223J
R131	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0J
R132	204 8416 007	Carbon film 18ohm 1/4W	RD14B2E180JT
R133	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0J
R134,135	247 0012 969	Carbon chip 150 kohm 1/10W	RM73B--154J
R136	247 0010 929	Carbon chip 15 kohm 1/10W	RM73B--153J
R137	247 0010 929	Carbon chip 15 kohm 1/10W	RM73B--153J
R139	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R140			OPEN(CHIP R)
R141	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0J
R142	247 0008 902	Carbon chip 1.8 kohm 1/10W	RM73B--182J
R143	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R144	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0J
R145			OPEN(CHIP R)
R147	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R148	247 0009 985	Carbon chip 15 kohm 1/10W	RM73B--103J
R149~152	247 0012 998	Carbon chip 200 kohm 1/10W	RM73B--204J
R155~157	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B--332J
R158	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B--221J
R159,160	247 0007 961	Carbon chip 1.2 kohm 1/10W	RM73B--122J
R161,162	247 0011 960	Carbon chip 56 kohm 1/10W	RM73B--563J
R163,164	247 0006 988	Carbon chip 560 ohm 1/10W	RM73B--561J
R165,166	247 0006 991	Carbon chip 620 ohm 1/10W	RM73B--621J
R167	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0J
R168	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B--332J
R190			OPEN(CHIP R)
R191	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R192	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R193	247 0008 915	Carbon chip 2 kohm 1/10W	RM73B--202J
R194	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0J
R199		Carbon film 1 kohm 1/4W	RD14B2E102JT
R201	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R202		Carbon film 1.2 kohm 1/4W	RD14B2E122JT
R203	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R204~208	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R209~213	247 0009 914	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R214	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
			for E2,EK
R214			OPEN(CHIP R)
			for E3,E1
R215			OPEN(CHIP R)
R216	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R216			for E2,EK,E1
R217,218			OPEN(CHIP R)
			for E2,EK
R217,218	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
	247 0009 901		for E3,E1

Ref. No.	Part No.	Part Name	Remarks
R219		Carbon chip 4.7 kohm 1/10W	RM73B--472J
R220			OPEN(CHIP R)
			for E2,EK,E3
R220	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
			for E1
R221	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
			for E2,EK
R221			OPEN(CHIP R)
			for E3,E1
R222	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R223	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R224	247 0010 903	Carbon chip 15 kohm 1/10W	RM73B--153J
R225	247 0011 902	Carbon chip 33 kohm 1/10W	RM73B--333J
R226~228	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R229	247 0008 928	Carbon chip 2.2 kohm 1/10W	RM73B--222J
R230	247 0008 928	Carbon chip 2.2 kohm 1/10W	RM73B--222J
R231	244 2043 953	Metal oxide 470 ohm 1W	RS14B3A471JNBST(S)
R232	247 0010 961	Carbon chip 22 kohm 1/10W	RM73B--223J
R234,235	247 0010 916	Carbon chip 10 kohm 1/10W	RM73B--103J
R236	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R237	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R238	244 2043 953	Metal oxide 470 ohm 1W	RS14B3A471JNBST(S)
R239	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R240	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R241~243	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0J
R245,246	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0J
R247	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R249		Carbon film 330 ohm 1/4W	RD14B2E331JT
R250	247 0008 915	Carbon chip 2 kohm 1/10W	RM73B--202J
R251,252	244 2055 941	Metal oxide 330 ohm 1W	RS14B3A331JNBST(S)
R253	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R254,255	247 0008 928	Carbon chip 2.2 kohm 1/10W	RM73B--222J
R301,302	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B--474J
R303,304	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R305,306	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B--474J
R307,308	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R309	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B--474J
R310	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B--474J
R311,312	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R313,314	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B--474J
R315~318	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R319,320	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R321,322	247 0008 915	Carbon chip 2 kohm 1/10W	RM73B--202J
R323~326	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R327,328	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R331~334	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R335,336	247 0008 973	Carbon chip 3.6 kohm 1/10W	RM73B--362J
R337	247 0009 956	Carbon chip 7.5 kohm 1/10W	RM73B--752J
R338	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R339,340	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R341,342	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J

Ref. No.	Part No.	Part Name	Remarks
R343,344	247 0008 915	Carbon chip 2 kohm 1/10W	RM73B--202J
R345,346	247 0011 944	Carbon chip 470 ohm 1/10W	RM73B--471J
R347,348	247 0007 945	Carbon chip 1kohm 1/10W	RM73B--102J
R349,350	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R351,352	247 0008 931	Carbon chip 2.4 kohm 1/10W	RM73B--242J
R353	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R354	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R355,356	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R357	247 0009 969	Carbon chip 8.2 kohm 1/10W	RM73B--822J
R358	247 0009 969	Carbon chip 8.2 kohm 1/10W	RM73B--822J
R359,360	247 0007 987	Carbon chip 1.5 kohm 1/10W	RM73B--152J
R361,362	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R363	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R364	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R365	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R368	247 0008 915	Carbon chip 2 kohm 1/10W	RM73B--202J
R369	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R371	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R372	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R374	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R401	247 0006 946	Carbon chip 390 ohm 1/10W	RM73B--391J
R402	247 0007 903	Carbon chip 680 ohm 1/10W	RM73B--681J
R403	247 0006 904	Carbon chip 270 ohm 1/10W	RM73B--271J
R404	247 0006 946	Carbon chip 390 ohm 1/10W	RM73B--391J
R405	247 0005 963	Carbon chip 180 ohm 1/10W	RM73B--181J
R406	247 0006 904	Carbon chip 270 ohm 1/10W	RM73B--271J
R407	247 0005 947	Carbon chip 150 ohm 1/10W	RM73B--151J
R408	247 0005 963	Carbon chip 180 ohm 1/10W	RM73B--181J
R409	247 0005 959	Carbon chip 220 ohm 1/10W	RM73B--221J
R410	247 0006 917	Carbon chip 330 ohm 1/10W	RM73B--331J
R411	247 0005 947	Carbon chip 150 ohm 1/10W	RM73B--151J
R413	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R414	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B--562J
R415	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R501,502	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R503,504	247 0011 960	Carbon chip 56 kohm 1/10W	RM73B--563J
R505,506	247 0008 944	Carbon chip 2.7 kohm 1/10W	RM73B--272J
R507,508	244 2043 937	Metal oxide 4.7 ohm 1W	RS14B3A4R7JNBST(S)
⚠ R509,510		Fusible 100 ohm 1/4W	RD14B2E101GFRST
R511,512	247 0011 960	Carbon chip 56 kohm 1/10W	RM73B--563J
R513,514	244 2051 987	Metal oxide 10 ohm 1W	RS14B3A100JNBST(S)
R515~517	247 0010 961	Carbon chip 22 kohm 1/10W	RM73B--223J
R599		Carbon film 3 kohm 1/4W	RD14B2E302JT
R601	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R602	247 0010 961	Carbon chip 22 kohm 1/10W	RM73B--223J
R603	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R604	247 0010 961	Carbon chip 22 kohm 1/10W	RM73B--223J
R605	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R606,607	247 0010 961	Carbon chip 22 kohm 1/10W	RM73B--223J

Ref. No.	Part No.	Part Name	Remarks
R608	247 0008 928	Carbon chip 2.2 kohm 1/10W	RM73B--222J
R609	247 0010 961	Carbon chip 22 kohm 1/10W	RM73B--223J
R610	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R611	247 0010 961	Carbon chip 22 kohm 1/10W	RM73B--223J
R612	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R613	247 0005 959	Carbon chip 220 ohm 1/10W	RM73B--221J
R614~616	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R617	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B--332J
R618	244 2051 987	Metal oxide 10 ohm 1W	RS14B3A100JNBST(S)
R619,620	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R621	247 0008 915	Carbon chip 2 kohm 1/10W	RM73B--202J
R622	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
⚠ R623		Composition 2.7 Mohm 1/2W	RC05GF2H275K
R623			for E3 OPEN(R) for E2,EK
R624	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
⚠ R625	244 2051 945	Metal oxide 1 ohm 1W	RS14B3A010JNBST(S)
R990~992	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0J

CAPACITORS

C102	256 1058 971	Metalized 0.1μF/50V	CF93A1H104JT(JL)
C105			OPEN(CHIP C)
C107	256 1059 938	Metalized 0.33μF/50V	CF93A1H334JT(JL)
C108	254 4524 927	Electrolytic 0.33μF/50V	CE04W1HR33MT
C109,110	257 0012 982	Ceramic chip 0.022μF/50V	CK73F1H223ZT
C111	257 0006 901	Ceramic chip 390pF/50V	CC73C1H391JT
C112	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT
C113	254 4524 901	Electrolytic 0.1μF/50V	CE04W1H0R1MT
C114	257 0004 961	Ceramic chip 100pF/50V	CC73C1H101JT
C115	257 0010 955	Ceramic chip 0.027μF/50V	CK73B1H273KT
C116,117	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102JT
C118	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104ZT
C119	254 4536 931	Electrolytic 330μF/10V	CE04W1A331MT
C120	257 0013 907	Ceramic chip 0.047μF/50V	CK73F1H473ZT
C121	257 0002 921	Ceramic chip 10pF/50V	CC73C1H100DT
C122	257 0004 961	Ceramic chip 100pF/50V	CC73C1H101JT
C123	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104ZT
C124	257 0014 906	Ceramic chip 0.033μF/25V	CK73F1E333KT
C125	257 0009 966	Ceramic chip 4700pF/50V	CK73B1H472JT
C126,127	256 1058 971	Metalized 0.1μF/50V	CF93A1H104JT(JL)
C128,129	257 0006 969	Ceramic chip 680pF/50V	CC73C1H681JT
C130	256 1058 971	Metalized 0.1μF/50V	CF93A1H104JT(JL)
C131	254 4536 928	Electrolytic 100μF/10V	CE04W1A101MT
C132	254 4536 901	Electrolytic 220μF/10V	CE04W1A221MT
C133	254 4524 901	Electrolytic 0.1μF/50V	CE04W1H0R1MT
C134	254 4536 928	Electrolytic 100μF/10V	CE04W1A101MT
C135	257 0010 900	Ceramic chip 0.01μF/50V	CK73B1H103KT
C136	254 4538 942	Electrolytic 100μF/16V	CE04W1C101MT
C137	257 0013 907	Ceramic chip 0.047μF/50V	CK73F1H473ZT
C138	255 1265 994	Poly film 0.033μF/50V	CQ93M1H333JT(B)

Ref. No.	Part No.	Part Name	Remarks
C139	256 1059 912	Metalized 0.22μF/50V	CF93A1H224JT(JL)
C140	257 0009 924	Ceramic chip 2200pF/50V	CK73B1H222JT
C141	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102JT
C142	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104ZT
C143	257 0006 943	Ceramic chip 560pF/50V	CC73C1H561JT
C144	257 0010 900	Ceramic chip 0.01μF/50V	CK73B1H103KT
C145		Electrolytic 330μF/16V	CE04W1C331MT
C146	257 0004 987	Ceramic chip 120pF/50V	CC73C1H121JT
C147,148	257 0009 940	Ceramic chip 3300pF/50V	CK73B1H332JT
C149	254 4524 956	Electrolytic 2.2μF/50V	CE04W1H2R2MT
C150	254 4536 902	Electrolytic 22μF/10V	CE04W1A220MT
C151,152	257 0004 961	Ceramic chip 100pF/50V	CC73C1H101JT
C153,154	257 0012 982	Ceramic chip 0.022μF/50V	CK73F1H223ZT
C155	254 4536 902	Electrolytic 22μF/10V	CE04W1A220MT
C156	257 0013 907	Ceramic chip 0.047μF/50V	CK73F1H473ZT
C157	257 0006 943	Ceramic chip 560pF/50V	CC73C1H561JT
C159			OPEN(CHIP C)
C162,163	257 0503 996	Ceramic chip 20pF/50V	CC73C1H200JT
C172			OPEN(CHIP C)
C173	254 4524 972	Electrolytic 4.7μF/50V	CE04W1H4R7MT
C175			OPEN(CHIP C)
C176	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104ZT
C177,178			OPEN(CHIP C)
C180	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104ZT
C182		Ceramic 0.01μF/50V	CK45F1H103ZT
C199	254 4538 942	Electrolytic 100ƒÊF/16V	CE04W1C101MT
C201	254 4538 900	Electrolytic 10μF/25V	CE04W1E100MT
C202,203	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C204	254 4538 900	Electrolytic 10μF/25V	CE04W1E100MT
C205	257 0010 900	Ceramic chip 0.01μF/50V	CK73B1H103KT
C206	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT
C207	257 0010 900	Ceramic chip 0.01μF/50V	CK73B1H103ZT
C208	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104ZT
C209	254 4524 956	Electrolytic 2.2μF/50V	CE04W1H2R2MT
C210	254 4538 939	Electrolytic 47μF/16V	CE04W1C470MT
C211	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104ZT
C212	257 0010 900	Ceramic chip 0.01μF/50V	CK73B1H103KT
C213~215			OPEN(CHIP C)
C216	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104ZT
C301,302	257 0006 927	Ceramic chip 470pF/50V	CC73C1H471JT
C303,304	254 4524 972	Electrolytic 4.7μF/50V	CE04W1H4R7MT
C305,306	257 0006 927	Ceramic chip 470pF/50V	CC73C1H471JT
C307,308	254 4524 972	Electrolytic 4.7μF/50V	CE04W1H4R7MT
C309,310	257 0006 927	Ceramic chip 470pF/50V	CC73C1H471JT
C311,312	254 4524 972	Electrolytic 4.7μF/50V	CE04W1H4R7MT
C313,314	257 0006 927	Ceramic chip 470pF/50V	CC73C1H471JT
C315,316	254 4524 972	Electrolytic 4.7μF/50V	CE04W1H4R7MT
C317,318	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102JT
C319,320	254 4524 972	Electrolytic 4.7μF/50V	CE04W1H4R7MT
C321~323	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT

Ref. No.	Part No.	Part Name	Remarks
C324	254 4524 901	Electrolytic 0.1μF/50V	CE04W1H0R1MT
C325~330	254 4524 972	Electrolytic 4.7μF/50V	CE04W1H4R7MT
C331~334	256 1058 971	Meralized 0.1μF/50V	CF93A1H104JT(JL)
C337,338	257 0009 937	Ceramic chip 2700pF/50V	CK73B1H272JT
C339	254 4538 913	Electrolytic 22μF/16V	CE04W1C220MT
C340	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C341~343	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT
C344	254 4536 915	Electrolytic 47μF/10V	CE04W1A470MT
C345,346	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C347	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT
C348	254 4524 972	Electrolytic 4.7μF/50V	CE04W1H4R7MT
C349,350	257 0016 917	Ceramic chip 22pF/50V	CC73C1H220JT
C351	257 0005 986	Ceramic chip 330pF/50V	CC73C1H331JT
C352	257 0006 943	Ceramic chip 560pF/50V	CC73C1H561JT
C353~356	254 4524 972	Electrolytic 4.7μF/50V	CE04W1H4R7MT
C357~359	254 4538 939	Electrolytic 47μF/16V	CE04W1C470MT
C360	254 4524 901	Electrolytic 0.1μF/50V	CE04W1H0R1MT
C361,362	254 4538 939	Electrolytic 47μF/16V	CE04W1C470MT
C363,364	254 4524 972	Electrolytic 4.7μF/50V	CE04W1H4R7MT
C365	254 4538 939	Electrolytic 47μF/16V	CE04W1C470MT
C366	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT
C367	254 4524 901	Electrolytic 0.1μF/50V	CE04W1H0R1MT
C368	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C401~403			OPEN(CHIP C)
C404	254 4536 915	Electrolytic 47μF/10V	CE04W1A470MT
C405	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C406	254 4536 915	Electrolytic 47μF/10V	CE04W1A470MT
C407	257 0003 904	Ceramic chip 22pF/50V	CC73C1H220JT
C409,410	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102JT
C501,502	254 4524 972	Electrolytic 4.7μF/50V	CE04W1H4R7MT
C503,504	254 4524 998	Electrolytic 22μF/50V	CE04W1H220MT
C505,506	257 0006 927	Ceramic chip 470pF/50V	CC73C1H471JT
C507,508			OPEN(CHIP C)
C509,510	254 4525 926	Electrolytic 100μF/50V	CE04W1H101MT
C511,512	256 1058 971	Metalized 0.1μF/50V	CF93A1H104JT(JL)
C513,514	254 4524 985	Electrolytic 10μF/50V	CE04W1H100MT
C515,516	257 0002 921	Ceramic chip 10pF/50V	CC73C1H100DT
C517	254 4536 931	Electrolytic 330μF/10V	CE04W1A331MT
C599	254 3056 917	Electrolytic 1μF/50V(BP)	CE04D1H010MBPT
C601	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102JT
C602	254 4536 915	Electrolytic 47μF/10V	CE04W1A470MT
C603	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C604	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102JT
C605	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C606	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT
C607	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C608	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT
C609	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT
C610	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT

Ref. No.	Part No.	Part Name	Remarks
C611	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT
C612		Electrolytic 4700μF/35V	CE04W1V472MC
C613	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C614		Ceramic chip 4700pF/250V	CK45F2EAC472M
C615	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C616	254 4541 939	Electrolytic 47μF/25V	CE04W1E470MT
C617,618		Electrolytic 4700μF/35V	CE04W1V472MC
C619,620	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C621	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT
C622	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C623	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT
C624,625	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C626	254 4524 985	Electrolytic 10μF/50V	CE04W1H100MT
C627	254 4525 926	Electrolytic 100μF/50V	CE04W1H101MT
C628	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C629	257 0013 907	Ceramic chip 0.047μF/50V	CK73F1H473ZT
C630	254 4538 900	Electrolytic 10μF/16V	CE04W1C100MT
C631	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C632	254 4524 943	Electrolytic 1μF/50V	CE04W1H010MT
C633	254 4403 721	Electrolytic 2200μF/25V	CE04W1E222MC
C634,635	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C636~640			OPEN(CHIP C)
C701,702	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103ZT
C703,704	255 1265 936	Poly film 0.01μF/50V	CQ93M1H103JT(B)
C901,902		Ceramic 1000pF/50V	CK45B1H102KT

OTHERS				Q'ty
CX031	205 0653 036	3P VH connector base		1
CX032	205 0581 001	2P VH connector base		1
CX033	205 0581 001	2P VH connector base		1
CX034	205 0355 033	3P PH connector base(S)		1
CX051	205 0355 059	5P PH connector base(S)		1
CX052	951 0013 601	5P NH connector base		1
CX061	205 0355 062	6P PH connector base(S)		1
CX071	205 0355 075	7P PH connector base(S)		1
CX111	951 0014 202	11P connector base	IMSA-6053B11AT	1
CX141	951 0013 902	14P connector base	IMSA-9110S-14	1
CX151	205 0480 050	15P PHconnector base(S)		1
CX161	951 0014 707	16P FFC base(1mm)	IMSA-9610S-16A	1
CX191	951 0015 007	19P FFC base	IMSA-9604S-19F	1
CX211	951 0014 804	21P FFC base(1mm)	IMSA-9610S-21B	1
CX241	951 0013 504	24P FFC base	IMSA-9604S-24F	1
CX261	951 0014 600	26P connector base	IMSA-9142S-26A	1
CX262	951 0014 309	26P connector base	IMSA-9890B-26A	1
CY035	205 0343 032	3P PH connector base		1
CY042	205 0343 045	4P PH connector base		1
CY111	951 0014 105	11P connector base	IMSA-91173S11AT	1
CY141	951 0014 008	14P connector base	IMSA-9110B-14	1
CY151	205 0375 055	15P PH connector base		1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
CY152	951 0014 901	15P FFC base	IMSA-9604S-15A	1
CY191	951 0015 007	19P FFC base	IMSA-9604S-19F	1
CY211	951 0014 804	21P FFC base(1mm)	IMSA-9610S-21B	1
CY241	951 0013 504	24P FFC base	IMSA-9604S-24F	1
CY261	951 0014 503	26P connector base	IMSA-9142B-26A	1
CY262	951 0014 406	26P connector base	IMSA-9890S-26A	1
⚠ F601	206 1074 073	Fuse T500mA/250V	for E1,E2,EK	1
⚠ F601	206 1072 033	Fuse 2A/125V	for E3	1
⚠ F602	206 1072 043	Fuse T2.5A/250V	for E1,E2,EK	1
⚠ F602	206 1072 088	Fuse 5A/125V	for E3	1
FL401	393 8049 004	FL tube		1
JK301	951 0010 604	4P RCA jack board		1
JK302	951 0010 701	6P RCA jack board		1
JK401	951 0010 507	Mini jack		1
JK408	951 0009 903	SP terminal		1
JK601	951 0010 808	Mini jack		1
JK602	951 0010 808	Mini jack		1
⚠ JK605	203 3961 004	AC outlet(E2)	for E1,E2,EK	1
⚠ JK605	951 0031 104	AC outlet(E3)	for E3	1
⚠ IC902	206 1081 008	Fuse(SSFR1.0A F006)	MICRO FUSE 1A/125V	1
L101	214 0206 005	Inductor 10μH		1
L501,502	235 0104 007	Inductor 1μH		2
RL601	214 0206 005	Relay PCI-212DM		1
RL602	214 0202 009	Power relay DG1U TV-8		1
S402	951 0010 905	Tact switch		1
S403	951 0010 905	Tact switch		1
S405	951 0010 905	Tact switch		1
S406	951 0010 905	Tact switch		1
S407	951 0010 905	Tact switch		1
S409	951 0010 905	Tact switch		1
S410	951 0010 905	Tact switch		1
S411	951 0010 905	Tact switch		1
S412	951 0010 905	Tact switch		1
S413	951 0011 302	Rotaly encorder	VOLUME	1
SW301	951 0011 108	Slide switch	PRE OUT SW	1
⚠ T601	951 0011 001	Sub trans	for E1,E2,EK	1
⚠ T601	233 6355 003	Power trans(sub) E3	for E3	1
X101	GP3 8002 050	Crystal 16.9344MHz		1
X201	951 0011 700	Ceramic 12.5 MHz		1
X301	951 0011 603	Crystal 4.332MHz		1
★	951 0031 447	Micro fuse label 1A/125V (IC902)		

Ref. No.	Part No.	Part Name	Remarks	Q'ty
★	951 9002 079	Fuse label T500mA/250V (F601)	for E1,E2,EK	1
★	951 0031 450	Fuse label 2A/125V (F601)	for E3	1
★	951 9002 066	Fuse label T2.5A/250V (F602)	for E1,E2,EK	1
★	951 0031 421	Fuse label 5A/125V (F602)	for E3	1
★	417 0253 055	Radiator	for IC604	1
★	417 0253 013	Radiator	for IC603	1
★	951 9001 177	Screw 3X6 CBRTS		5
★	951 0015 201	2P SAN-SAN connector cord	CW021	1
★	951 0015 706	4P PH-SAN connector cord	CX042	0
★	951 0052 609	3P PH-SAN connector cord	CX035	1
★	951 0015 502	5P PH-PH connector cord	CX051	1
★	951 0015 405	6P PH-PH connector cord	CX061	1
★	951 0015 308	15P PH-PH connector cord	CX151	1
★	951 0015 803	15P FFC cable	CY152	1
★	951 0016 103	16P FFC cable	CX161	1
★	951 0015 900	19P FFC cable	CX191	1
★	951 0016 200	21P FFC cable	CX211	1
★	951 0016 006	24P FFC cable	CX241	1
★	202 0040 909	Fuse holder	F601,602	4
★	449 0172 007	Senser holder		1
★	461 1067 001	FL spacer		2
★	—	1P wire Ass'y	W705	1
★	—	1P wire Ass'y	W716	1
★	—	1P wire	W711A-W711B	1
★	—	1P wire	W712A-W712B	1
★	—	1P wire	W713A-W713B	1
★	—	1P wire	W714A-W714B	1
★	—	1P wire	W901	1
★	—	1P wire	W717 for E2,EK	1

PARTS LIST OF EXPLODED VIEW

Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	951 0009 411	MAIN P.W.B. unit Ass'y	For E2,EK	1s
1	951 0009 424	MAIN P.W.B. unit Ass'y	For E3	1s
1	951 0009 437	MAIN P.W.B. unit Ass'y	For E1	1s
1-1		POWER P.W.B. unit		
1-2		AMP-1 P.W.B. unit		
1-3		AMP-2 P.W.B. unit		
1-4		DISPLAY P.W.B. unit		
1-5		SPEAKER P.W.B. unit		
1-6		CD P.W.B. unit		
1-7		I/O P.W.B. unit		
1-8		μ-CON P.W.B. unit		
1-9		JUNCTION P.W.B. unit		
2	144 2717 002	Front panel	For E2,EK	1
2	144 2717 015	Front panel	For E3	1
2	144 2717 015	Front panel	For E1	1
3	146 2196 001	Inner panel		1
4	143 1087 002	FL window		1
5	146 2202 005	Knob cap (A)		3
6	146 2203 004	Knob cap (B)		5
7	114 0152 008	Kbob ring (3P)		1
8	143 1086 003	Remocon filter		1
9	113 1888 006	Power knob Ass'y		1
10	112 0856 007	Volume knob Ass'y		1
11	146 2199 008	Loader panel		1
12	146 2201 006	Side esucutcheon		2
13	411 1940 301	Chassis		1
14	104 0317 008	Foot		4
15	461 1066 002	Felt		4
16	417 0596 000	Heat sink		1
17	951 0016 501	Shield plate		2
18	412 4621 002	Mecha holder		1
19	337 0080 003	CD mecha unit		1
20	105 1345 001	Rear plate	For E2,EK	1
20	105 1345 014	Rear plate	For E1	1
20	105 1345 030	Rear plate	For E3	1
21	412 4622 001	PCB support (A)		1
22	102 0633 003	Top cover		1
⚠ 23	233 6335 007	Power trans	For E2,EK,E1	1
⚠ 23	233 6334 006	Power trans	For E3	1
⚠ 24	951 0009 709	AC cord	For E2,EK,E1	1
⚠ 24	951 0028 201	AC cord	For E3	1
⚠ 24	951 0033 607	AC cord	For EK	1
25	445 0056 008	Bushing		1
26	216 0108 002	Tuner pack	For E2,EK,E1	1
26	216 0109 001	Tuner pack	For E3	1
27	443 9015 002	PWB spacer (H=8)		3
28	412 2814 002	Card spacer (H=8)		2
29	393 8049 004	FLD		1
30	449 0172 007	Remote sencer holder		1
31	415 0844 002	PVC sheet		1
32	951 0033 209	PWB sheet		1
33	951 0016 705	Fuse cover		1
34	951 0016 909	Fuse cover (L)		1

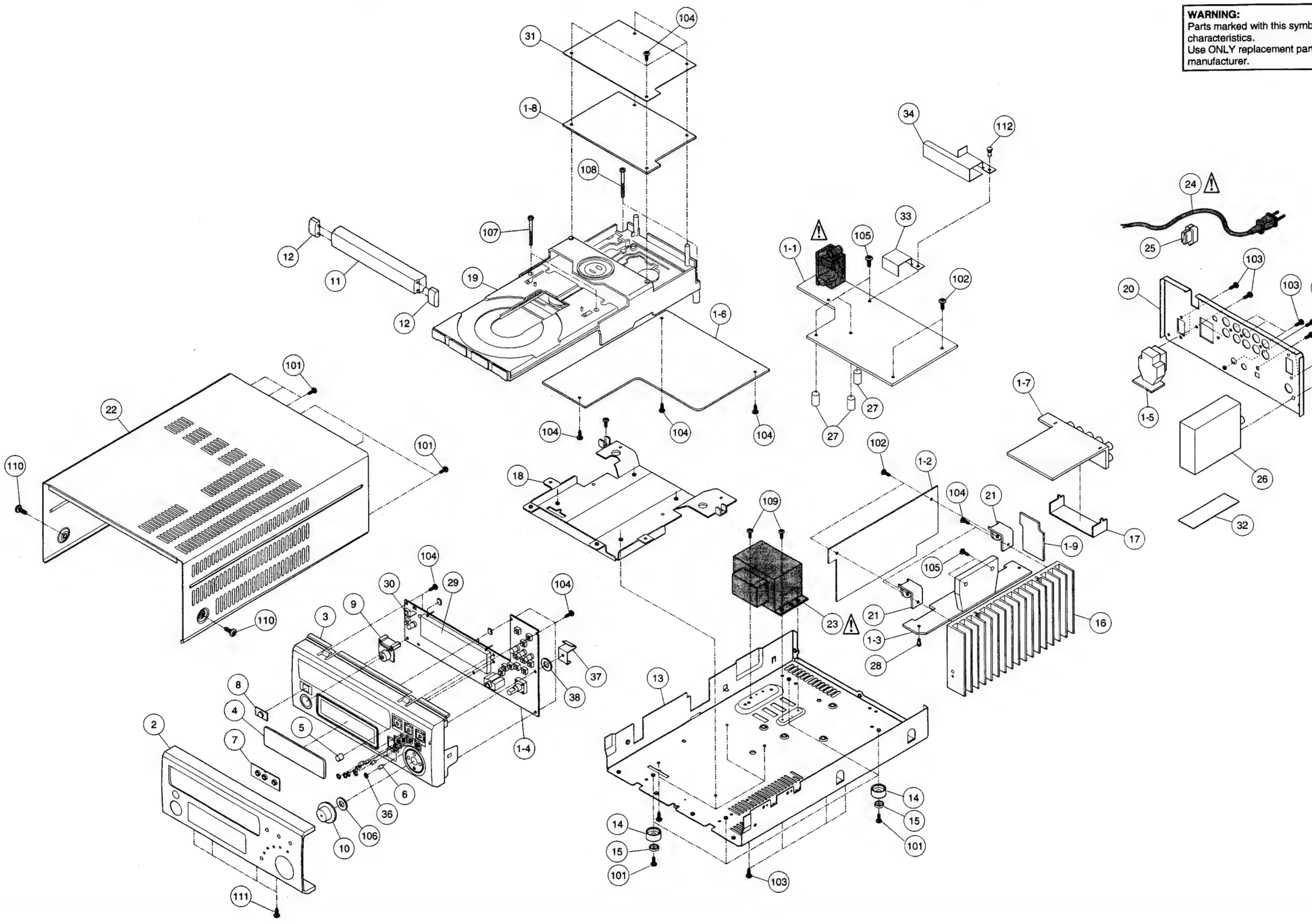
Ref. No.	Part No.	Part Name	Remarks	Q'ty
36	951 9002 053	Spring plate		5
37	951 0033 102	Earth plate		1
38	951 9002 037	Insulator washer		1
★	951 0016 200	FFC cable		1
SCREWS				
101	473 7015 005	Screw 3×6 CBTS(S)-B		17
102	951 9001 070	Screw 3×6 CBTS(S)-Z		4
103	951 9001 180	Screw 3×8 CBTS(P)-B		12
104	951 9001 151	Screw 3×8 CBTS(P)-Z		18
105	951 9001 193	Screw 3×14 CBTS(P)-Z		5
106	951 9001 164	9 Nut		1
107	GP3 8009 026	Screw 3×25 CBTS(S)-Z		2
108	951 9002 011	Screw 3×35 CBTS(S)-Z		2
109	473 7004 016	Screw 4×6 CBTS(S)-Ni		4
110	477 0263 018	3P Swelling screw		2
111	473 7015 005	Screw 3×6 CBTS(S)-B		4
112	477 0096 007	Push rivet		1

EXPLODED VIEW

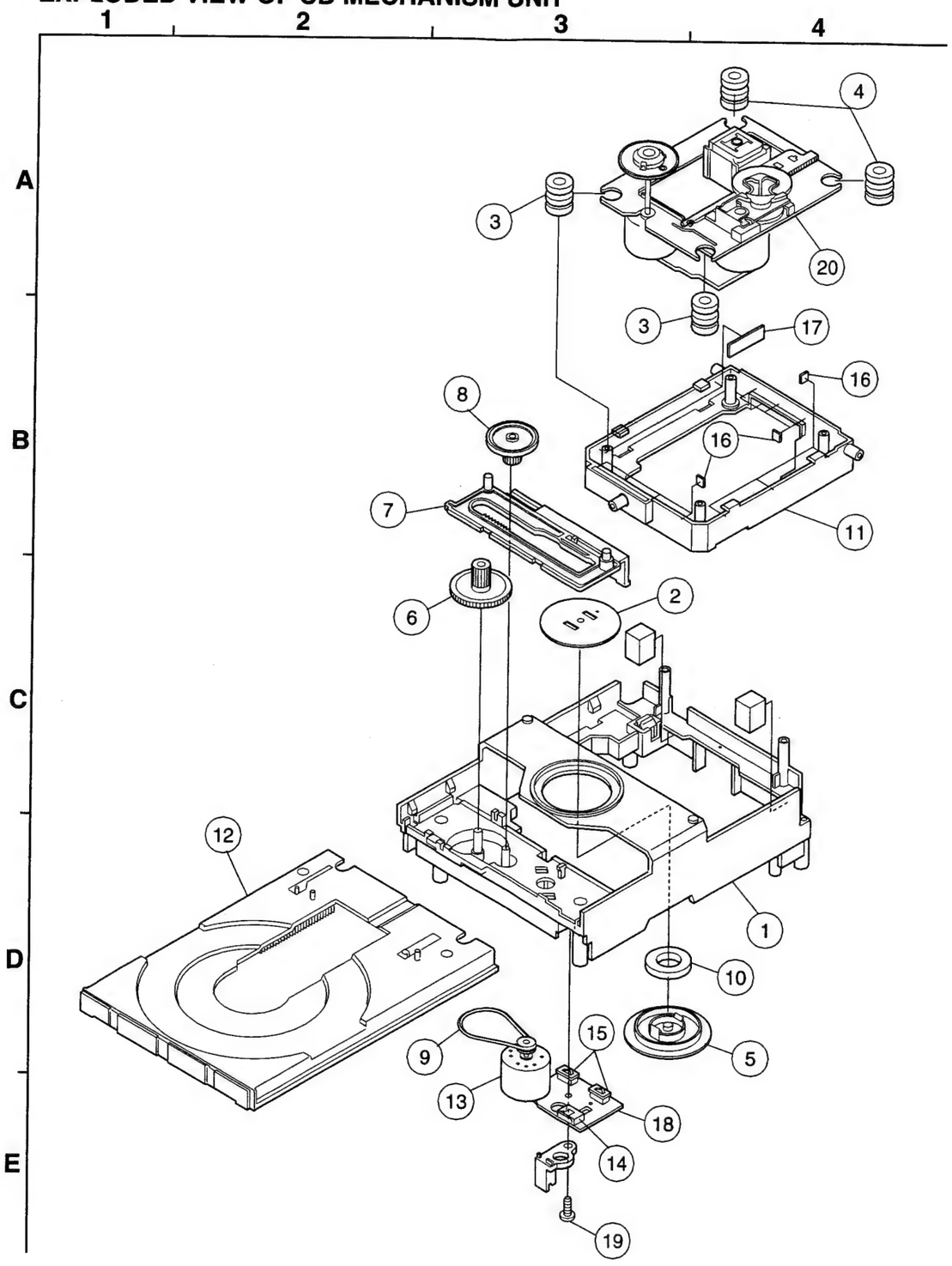
1 2 3 4 5 6 7 8

A B C D E

WARNING:
Parts marked with this symbol ⚠ ▭ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.



EXPLODED VIEW OF CD MECHANISM UNIT

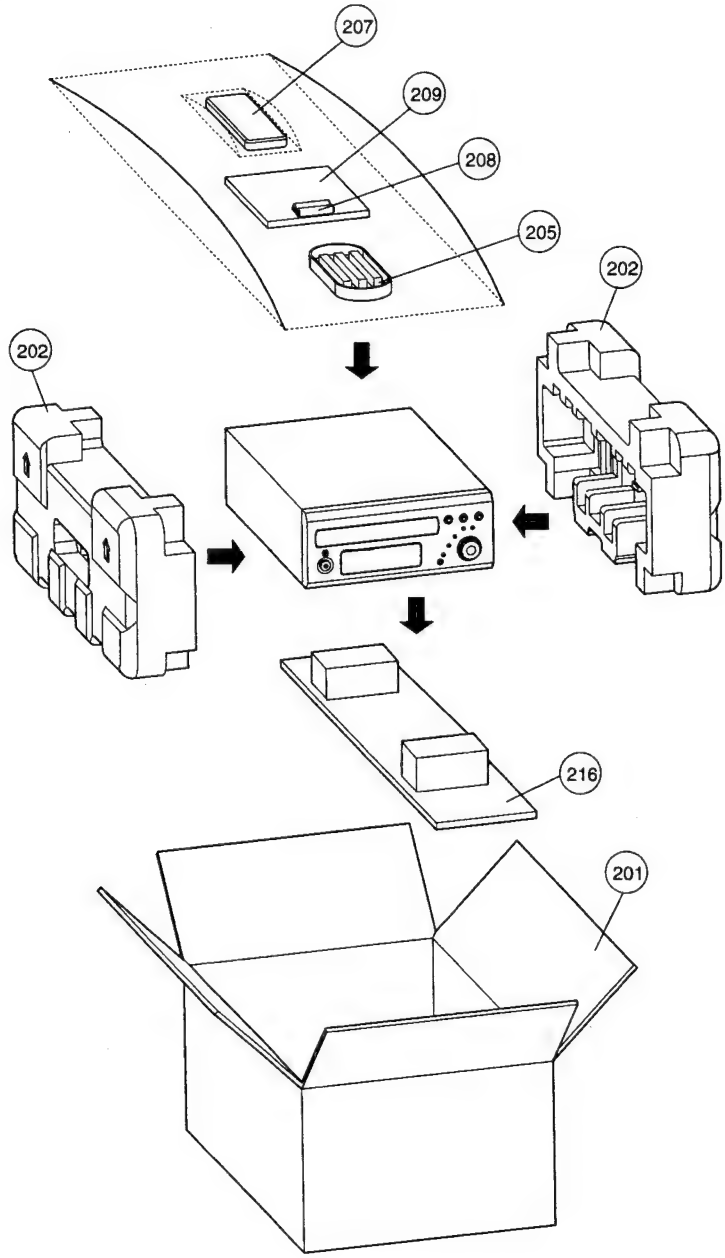


EXPLODED VIEW OF MECHANISM UNIT

Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	964 0009 006	Frame chassis		1
2	964 0009 103	Magnet plate		1
3	964 0009 200	Rubber cushion		2
4	964 0009 307	Rubber cushion		2
5	964 0009 404	Magnet holder		1
6	964 0009 501	Drive gear		1
7	964 0009 608	Slide gear		1
8	964 0009 705	Pulley gear		1
9	964 0009 802	Square belt		1
10	964 0009 909	Magnet		1
11	964 0010 008	Mecha lifter		1
12	964 0010 105	Loading table ass'y		1
13		Loading motor		1
14	964 0010 202	5P Plug		1
15	964 0010 309	Push switch 2-1		2
16	964 0010 406	Cushion		9
17	964 0010 503	Cushion		2
18	964 0010 600	Motor P.W.B.		2
19	964 0010 707	Screw 3×8 SCR S-TPG BIN		1
20	964 0010 804	Mecha DA11T3C		1

Only the parts listed in the left table can be changed. Replace the Mecha. Unit if other parts than listed ones are to be repaired.

PACKING VIEW



PARTS LIST OF PACKING & ACCESSORIES

Ref. No.	Part No.	Part Name	Remarks	Q'ty
201	501 2090 003	Carton case		1
202	503 1358 001	Cushion		2
203	951 0016 608	Poly cover		1
204	505 0038 030	Envelope		1
205	951 0009 107	AM loop antenna		1
206	951 0009 301	FM antenna		1
207	951 0009 000	Remote contorol		1
208	—	Battery		2
209	511 3651 008	Instruction manual	For E2,EK	1
209	511 3652 007	Instruction manual	For E3	1
209	511 3650 009	Instruction manual	For E1	1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
210	515 0690 404	DEL Warraty home	E3 only	1
211	515 0867 004	Service list		1
212	—	Contorol card	For E2,EK	1
212	—	Contorol card	For E3	1
212	—	Contorol card	For E1	1
213	—	Manyufactured label	For E3	1
214	517 1431 008	POS label	For E2	1
214	517 1431 011	POS label	For EK	2
215	517 1433 006	UPC label	For E3	1
216		Sub cushion		1

MEMO:

SCHEMATIC DIAGRAMS (1/2)

1 2 3 4 5 6

TUNER PACK

E2/EK ONLY
TO TUNER PACK

CY152
15P_FFC(1255)

[1.25mmTOP]

C902
CK1000P

W717

IC 902 1A/125V

W712A

TR306
DTC323TK

TR308
DTC323TK

R325 10K
R326 10K
R327 1K
R328 1K

R371 47K
R372 47K

TR313
DTC114EK

R368 2K
R369 4.7K

R374 10K

C346 CK0.01Z
C344 47/10

R331 1K
R333 1K
R334 1K

C351 330P
C345 CK0.01Z
C347 10/16
C348 4.7/50
C352 560P
C349 22P
C350 22P

IC303
LC72720NM

X301
4.332MHz

E2/EK ONLY

C340 CK0.01Z
C341 10/16

TR309
2SC2412K

C342 10/16
R337 7.5K
R332 1K

TR310
DTA114EK

C343 10/16

D301 1N4148

R338 4.7K

D303 1N4148

IC302
LC75342M

IC305
BA15218F (1/2)

R361 47K
R359 1.5K
C361 47/16
R362 47K
R364 4.7K
C364 4.7/50

R356 100K
R355 100K
R357 8.2K
R358 8.2K
R360 1.5K
C362 47/16

R340 100K
R339 100K

BA15218F
IC305

I/O UNIT

JK301
4P_PIN_JACK

LINE1
REC
LINE2

C301 470P
C302 470P
C303 4.7/50
C304 4.7/50
C305 470P
C306 470P
C307 4.7/50
C308 4.7/50
C309 470P
C310 470P
C311 4.7/50
C312 4.7/50
C313 470P
C314 470P
C315 4.7/50
C316 4.7/50
C321 CK0.01Z
C322 CK0.01Z

R303 470
R304 470
R305 470
R306 470
R307 470
R308 470
R309 470
R310 470
R311 470
R312 470
R313 470
R314 470
R315 470
R316 470
R301 470K
R302 470K
R303 470K
R304 470K
R305 470K
R306 470K
R307 470K
R308 470K
R309 470K
R310 470K
R311 470K
R312 470K
R313 470K
R314 470K

JK302
8P_PIN_JACK

PRE OUT

C317 CK1000P
C318 CK1000P
C319 4.7/50
C320 4.7/50
C323 CK0.01Z

TR301 DTC323TK
TR302 DTC323TK
TR315 DTC323TK
TR316 DTC323TK
TR318 470
TR345 470
TR346 470

R317 470
R319 100K
R320 100K
R321 2K
R322 2K

SW301
SLIDE SW
(ST MONO)
MONO
STEREO

TR303 DTC144EK
TR304 DTC144EK

R323 10K
R324 10K

C324 0.1/50
C325 4.7/50
C326 4.7/50
C327 4.7/50
C328 4.7/50

C329 4.7/35
C330 CK0.1J
C331 CK0.1J
C332 CK0.1J
C333 CK0.1J
C334 CK0.1J
C335 3.6K
C336 3.6K
C337 CK2700P
C338 CK2700P

IC301
BU4066BCF

[1.25mmSIDE]
24P_FFC(1255)
CX241

W710B

R207 47K
TR209 DTA115TK

CX151
15P-PH

TR211
DTA114EK

C366 10/16

D304 1N4148
R365 4.7K
D302 1N4148
V.MUTE

R243 0

TR210
DTC114TK
SUCS

W711B

C215 OPEN

TR201
2SB562(C)T

ZD202
MTZJ3.6A

R249 330 (1/4W)

C201 10/25
C203 CK0.01N
C205 CK0.01
R202 10K (1/4W)
R203 10K

TR206
C204 DTC114ES

IC201
UPD784216

R223 10K
R201 10K

CX051
5P-PH
CLOSE
OPEN

CY211
21P_FFC

CX211
21P_FFC
[1.00mmSIDE]

W710A

R241-R246
CHIP JUMPER
(2125)

R214 *R218
R215 *R219
R216 *R220
R217 *R221

4.7KX5

R209 OPEN
R210 CLOSE
R211
R212
R213
LEDR
LEDG

R253 47K

R205 INSW
R204 47KX4

R234 10K
R235 10K

JOGA
JOGB

R242 0

C216 0.1Z

X201
12.5MHz

C350 22P

R250 1K

KEY1
KEY2

R239 1K
W715B

R246 0

R226 10K

C212 CK0.01

R236 1K

IC205
M51957

R225 33K
R224 15K
R227 10K

C209 2.2/50

IC202
93LC66
R228 10K

DACLK
DARXD
DATXD

TR205
2SC3326(A/B)
TR203
2SC3326(A/B)
TR204
2SC3326(A/B)
TR202
2SC3326(A/B)

R229 2.2K
R254 2.2K
R230 2.2K
R255 2.2K

R232 22K
ZD201
MTZJ12A

C208 CK0.1Z

VERSION SELECT O=4.7K

	ROS		FREQ		EURO		USA	
	R214	R218	R215	R219	R216	R220	R217	R221
E2/EK	O	OPEN	OPEN	O	O	OPEN	OPEN	O
E3	OPEN	O	OPEN	O	OPEN	O	O	OPEN
E1	OPEN	O	OPEN	O	O	OPEN	O	OPEN
J	OPEN	O	OPEN	O	OPEN	O	OPEN	O

DISPLAY UNIT

FL401 11-BT-182GNK

IC401
LC75725E

C406 4.7/10
C405 CK0.01Z
R414 5.6K

R401 390
R403 270
R405 180
R407 150
C401 OPEN

S403 OP/CL
S405 SDB
S407 FUNC.
S409 STOP
S411 MENU

R402 680
R404 390
R406 270
R408 180
R411 150
C402 OPEN

S402 POWER
S406 PLAY
S410 UP
S412 DOWN

R415 4.7K

S413
ROTALY ENCODER
JOGA
JOGB

R409 220
R410 330

IC402
RPM6938

C403 OPEN
C404 47/10
R413 47

GRN
RED

TR401 DTC114EK
TR402 DTC114EK

LD401
SLR-93360S-91

R990
R991
R992

C408 OPEN
C410 CK1000P
C409 CK1000P

W706

C901 CK1000P
PLATE
FG4

JK401
H/PHONE

TX
SD_B
GND_A6
SD_A
MCLK
MDDATA
SUBQ
MLD
STAT
SENSE
FLOCK
TLOCK
BLKCK
SQCK
D. MUTE
GND_D1
GND_D1
GND_D2
SRST
+12V
INSW
+12V

MOTOR+
MOTOR-

-31V[D1]
F1
F2
MDDATA
MCLK
FLCE
KEY2
KEY1
JOGA
JOGB
LEDG
LEDA
REMOCON
5V_D1
5V_D1
GND_D1
HPSW
GND_A5
H/P_R

DARXD
CE-R
DACE
DATXD
DACLK
SYR
SD
STEREO
T.MUTE
LINE1
LINE2

SUCS

W711A

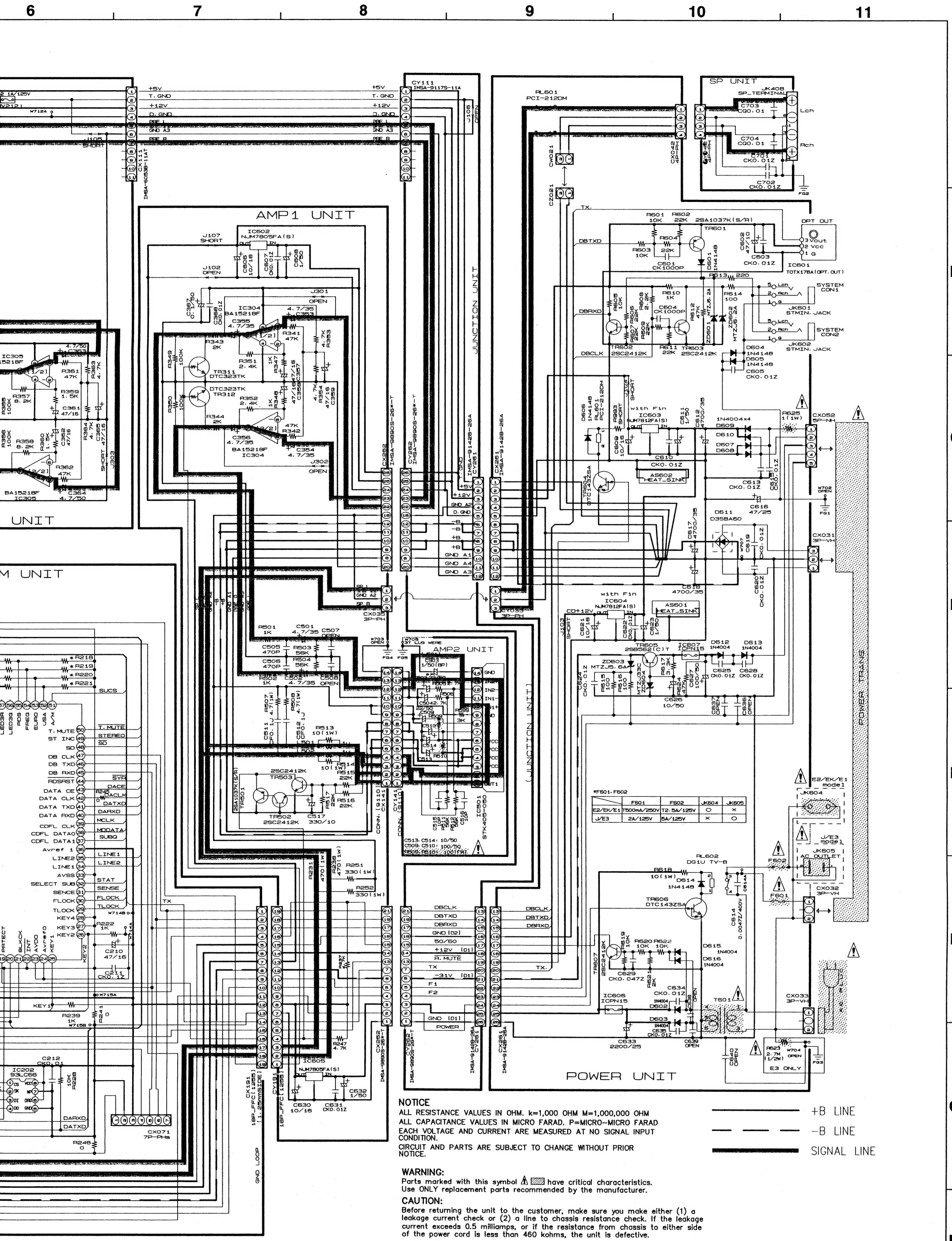
uCOM UNIT

SRST
VRST
SQCK
SUBQ
VDD
MOTOR-
MOTOR+
DRAWER -
DRAWER +
CARRIGE -
CARRIGE +
MLD
D.MUTE
DMUTE
NTSC/PAL
CDPOWER
CHA/SIG
HPSW
H/P SW
TEST
CD/VCD
INSW
VCL
VDI
VDO
VCE

SBCK SUBC SBCK2 VSS RVS SW FWD SW O/C SW D1 SW D2 SW HOME SW EX SW LED PR LED PG LED1R LED1G LED2R LED2G LED3R LED3G ROS FREQ EURO USA A/M

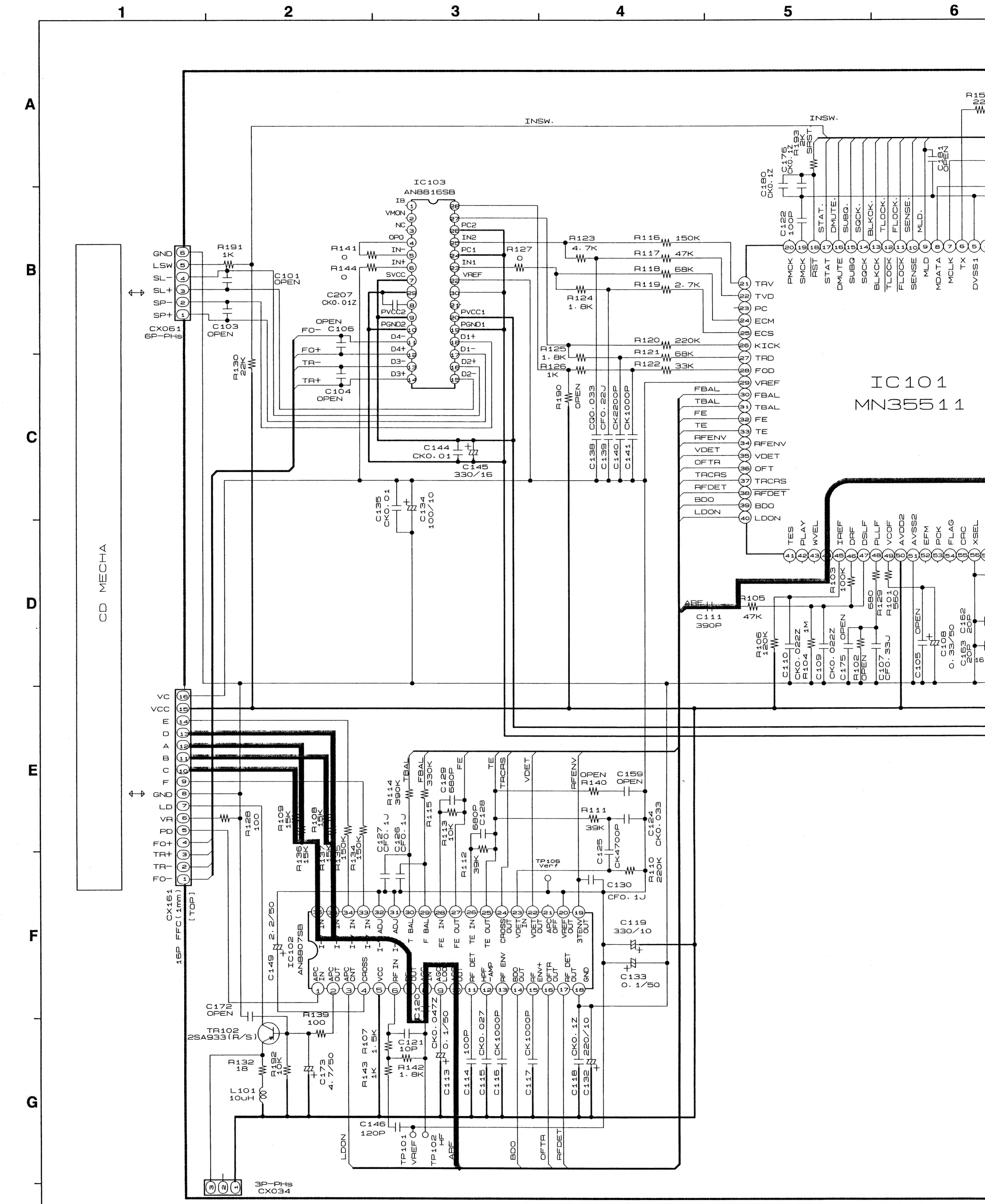
T.MUTE
ST INC
SD
DB CLK
DB TXD
DB RXD
RDSRST
DATA CE
DATA CLK
DATA TXD
DATA RXD
CDFL CLK
CDFL DATA0
CDFL DATA1
Avref 1
LINE2
LINE1
AVSS
SELECT SUB
SENCE
FLOCK
TLOCK
KEY4
KEY3
KEY2
KEY1

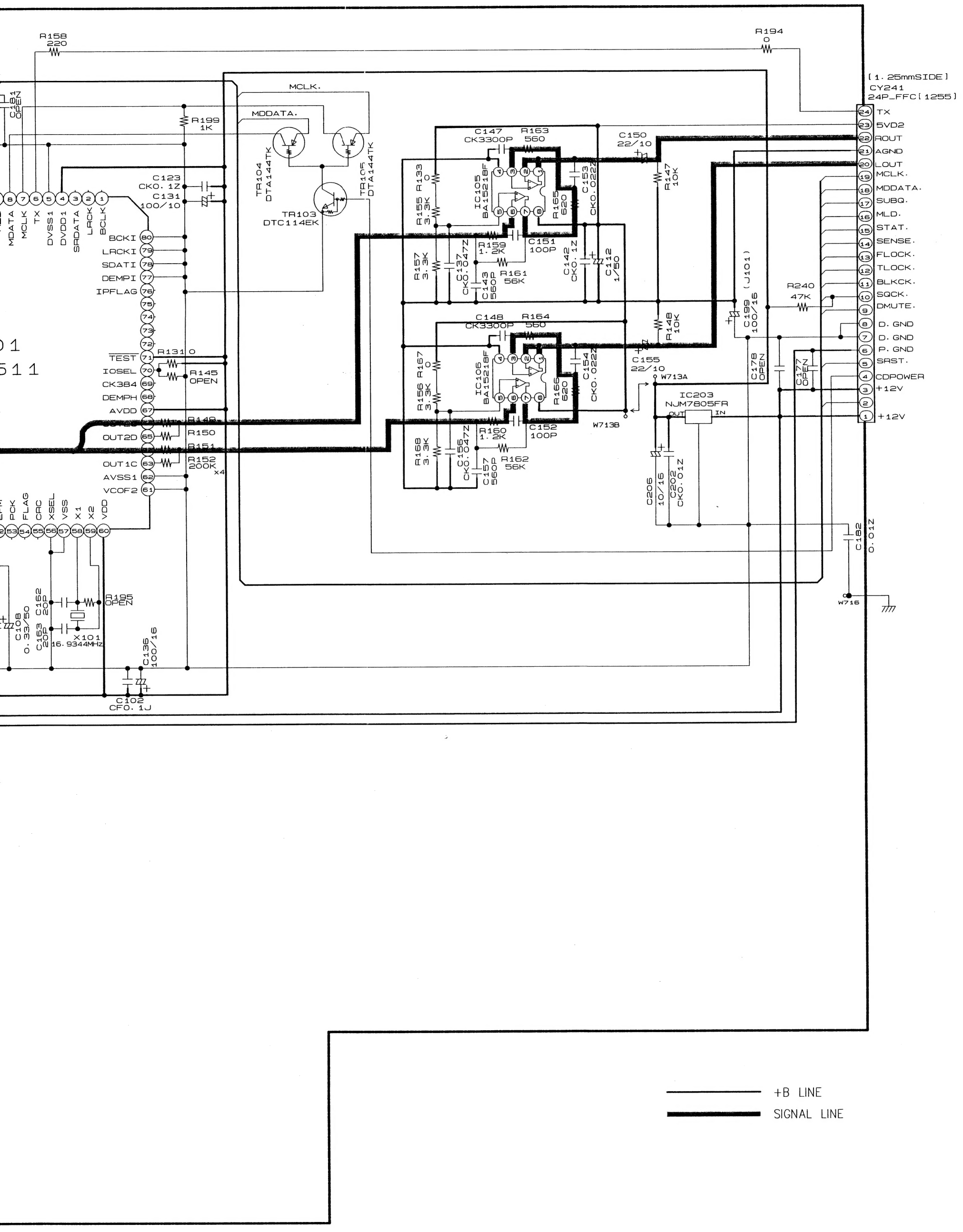
ENC A ENC B V.MUTE POWER R.MUTE SEL.EEPROM FLCE VDD X2 X1 VSS XT2 XT1 RESET REMOCON 50/60 DB RXD PRTECT BLKCK INT AVDD Avref0 KEY1 KEY2



SCHEMATIC DIAGRAMS (1/2)
MAIN UNIT

SCHEMATIC DIAGRAMS (2/2)





+B LINE

SIGNAL LINE

SCHEMATIC DIAGRAMS (2/2)

CD UNIT